Benthic Invertebrates Collected From Ungava Bay, Canada, 1947-1951

J. W. Wacasey and E. G. Atkinson

Arctic Biological Station
Department of Fisheries and Oceans
555 St. Pierre Boulevard
Ste. Anne de Bellevue, Quebec H9X 3R4

February 1987

Canadian Technical Report of
Fisheries and Aquatic Sciences
No. 1537

Government of Canada
Fisheries and Oceans

Gouvernement du Canada
Pêches et Océans

88-02284/

Canadian Technical Report of Fisheries and Aquatic Sciences

These reports contain scientific and technical information that represents an important contribution to existing knowledge but which for some reason may not be appropriate for primary scientific (i.e. *Journal*) publication. Technical Reports are directed primarily towards a worldwide audience and have an international distribution. No restriction is placed on subject matter and the series reflects the broad interests and policies of the Department of Fisheries and Oceans, namely, fisheries management, technology and development, ocean sciences, and aquatic environments relevant to Canada.

Technical Reports may be cited as full publications. The correct citation appears above the abstract of each report. Each report will be abstracted in *Aquatic Sciences and Fisheries Abstracts* and will be indexed annually in the Department's index to scientific and technical publications.

Numbers 1-456 in this series were issued as Technical Reports of the Fisheries Research Board of Canada. Numbers 457-714 were issued as Department of the Environment, Fisheries and Marine Service, Research and Development Directorate Technical Reports. Numbers 715-924 were issued as Department of Fisheries and the Environment, Fisheries and Marine Service Technical Reports. The current series name was changed with report number 925.

Details on the availability of Technical Reports in hard copy may be obtained from the issuing establishment indicated on the front cover.

Rapport technique canadien des sciences halieutiques et aquatiques

Ces rapports contiennent des renseignements scientifiques et techniques qui constituent une contribution importante aux connaissances actuelles mais qui, pour une raison ou pour une autre, ne semblent pas appropriés pour la publication dans un journal scientifique. Il n'y a aucune restriction quant au sujet, de fait, la série reflète la vaste gamme des intérêts et des politiques du Ministère des Pêches et des Océans, notamment gestion des pêches, techniques et développement, sciences océaniques et environnements aquatiques, au Canada.

Les Rapports techniques peuvent être considérés comme des publications complètes. Le titre exact paraîtra au haut du résumé de chaque rapport, qui sera publié dans la revue *Aquatic Sciences and Fisheries Abstracts* et qui figurera dans l'index annuel des publications scientifiques et techniques du Ministère.

Les numéros 1-456 de cette série ont été publiés à titre de Rapports techniques de l'Office des recherches sur les pêcheries du Canada. Les numéros 457-714, à titre de Rapports techniques de la Direction générale de la recherche et du développement, Service des pêches et de la mer, ministère de l'Environnement. Les numéros 715-924 ont été publiés à titre de Rapports techniques du Service des pêches et de la mer, Ministère des Pêches et de l'Environnement. Le nom de la série a été modifié à partir du numéro 925.

La page couverture porte le nom de l'établissement auteur où l'on peut se procurer les rapports sous couverture cartonnée.

Canadian Technical Report of
Fisheries and Aquatic Sciences 1537

February 1987

Benthic Invertebrates Collected From Ungava Bay, Canada, 1947-1951

J.W. Wacasey and E.G. Atkinson

Arctic Biological Station
Department of Fisheries and Oceans
555 St. Pierre Boulevard
Ste. Anne de Bellevue, Québec
H9X 3R4

(c) Minister of Supply and Services Canada 1987

Cat. No. Fs 97-6/1537 ISSN 0706-6457

Correct citation for this publication:

Wacasey, J.W. and E.G. Atkinson. 1987. Benthic invertebrates collected from Ungava Bay, Canada, 1947-1951. Can. Tech. Rep. Fish. Aquat. Sci. 1537: v + 68 p.

TABLE OF CONTENTS

ABSTRACT	iv
RESUME	iv
INTRODUCTION	1
METHODS	1
RESULTS AND DISCUSSION	4
ACKNOWLEDGEMENTS	6
REFERENCES	6
MAPS	9
TABLES	11

ABSTRACT

Wacasey, J.W. and E.G. Atkinson. 1987. Benthic invertebrates collected from Ungava Bay, Canada, 1947-1951. Can. Tech. Rep. Fish. Aquat. Sci. 1537: v + 68 p.

The Eastern Arctic Investigations of the Fisheries Research Board of Canada made extensive collections of marine invertebrates in Ungava Bay, between 1947 and 1951. Benthic invertebrates are tabulated for 77 of the 153 stations that were occupied. The tabulations were derived from published reports of major taxa and from identification of specimens of minor taxa and previously unsorted collections.

The 411 identified species are mostly macrobenthos (> 1 mm). This extensive survey provides information about the distribution and abundance of species and reveals that the bottom communities are diverse, usually having over 100 species. The taxa with the largest number of species are Polychaeta, Amphipoda, Ascidiacea, Hydrozoa, Ectoprocta, Gastropoda and Pelecypoda. Collections came from depths ranging from the shoreline to 225 m, but only a few were from more than 100 m. Twenty-five intertidal stations have a characteristic fauna that is low in diversity.

Ungava Bay, located in an area of well mixed waters, has a diverse benthic fauna with many widespread species and may be one of the more productive areas of northern Canada.

Key words: Benthos, benthic environment, marine invertebrates, distribution, Arctic Canada, Ungava Bay

RESUME

Wacasey, J.W. and E.G. Atkinson. 1987. Benthic invertebrates collected from Ungava Bay, Canada, 1947-1951. Can. Tech. Rep. Fish. Aquat. Sci. 1537: v + 68 p.

Au cours de la campagne d'échantillonnage "Eastern Arctic Investigations", des échantillons benthiques ont été prélevés à 77 des 153 stations visitées dans la baie d'Ungava entre 1947 et 1951. A l'aide de rapports publiés, et après l'identification des taxons de moindre importance et du contenu des échantillons égarés, nous avons dressé la liste des invertébrés benthiques de la baie d'Ungava.

Pour l'ensemble des stations, 411 espèces surtout macrobenthiques (>1 mm) ont été identifiées. Nous avons pû préciser la distribution et l'importance numérique de ces espèces et, lorsque l'échantillonnage était adéquat, montrer que les communautés benthiques étaient diversifiées, puisqu'elles comptaient plus de 100 espèces. Les Polychètes, Amphipodes, Ascidies, Hydrozoaires, Ectoproctes, Gastéropodes et Pélécypodes étaient représentés par le plus grand nombre d'espèces.

La profondeur aux stations échantillonnées variait entre 0 et 255 m, mais les stations avec plus de 100 m d'eau étaient peu nombreuses. Vingt-cinq stations littorales possédaient une faune peu diversifiée mais très caractéristique.

La baie d'Ungava, située dans une région avec des eaux bien mélangées, possède une faune benthique comprenant plusieurs espèces à distribution étendue, et est potentiellement l'une des régions les plus productives du nord du Canada.

INTRODUCTION

This report contains lists of benthic invertebrates collected from Ungava Bay, N.W.T. from 1947 through 1951. The collections were made by the Eastern Arctic Investigations of the Fisheries Research Board of Canada under the direction of M.J. Dunbar. In 1955 the Eastern Arctic Investigations became the Arctic Biological Unit of the Fisheries Research Board and still later the present Arctic Biological Station of the Department of Fisheries and Oceans.

The purpose of the Investigations was to systematically survey largely unknown areas in the eastern Canadian Arctic to assess the abundance and distribution of marine organisms (Dunbar 1952, 1956). Local vessels were used in 1947 and 1948 and the newly constructed 16 m diesel ketch Calanus (Dunbar 1949) was used in subsequent years to occupy a total of 153 stations located, for the most part, around the periphery of the bay. The sampling season extended from late June to early September, and various types of collecting gear were employed to obtain oceanographic data and to sample phytoplankton, zooplankton, zoobenthos, fish and marine mammals.

METHODS

Limited time and manpower prevented equal consideration being given to all animal groups in such a multifaceted sampling program. Consequently, few quantitative benthic samples were taken. Intertidal collections were made by hand and with dip nets. From boats, collections were made by dredge, trawl, grab, hand line, plankton net and dip net. The plankton net accidently touched bottom on occasion,

resulting in a mix of planktonic and benthic invertebrates. Planktonic species may thus be listed at some stations, but for the most part these have been excluded. Processing was also inconsistent, with larger specimens being selected and no special effort made to retain meiofauna or microfauna. Consequently, many small species were missed. Specimens were preserved in formalin, later sorted, and kept in storage until specialists could make identifications. Major phyla were dealt with sporadically over many years, resulting in published accounts of the major taxa as listed below:

Grainger 1954b.....ANNELIDA:Polychaeta

Dunbar 1954.....ARTHROPODA:Amphipoda

Bousfield 1955.....ARTHROPODA:Cirripedia

Corey 1981.....ARTHROPODA:Cumacea

Squires 1957.....ARTHROPODA:Decapoda

Hedgpeth 1963.....ARTHROPODA:Pycnogonida

Trason 1964.....CHORDATA:Ascidiacea

Calder 1970, 1972.....COELENTERATA:Hydrozoa

Grainger 1955, 1966.....ECHINODERMATA:Asteroidea

Grainger 1955.....ECHINODERMATA:Crinoidea, Echinoidea, Holothuroidea, Ophiuroidea

Powell 1968.....ECTOPROCTA

Macpherson 1971.....MOLLUSCA:Amphineura, Gastropoda

Lubinsky 1980.....MOLLUSCA:Pelecypoda

Identifications of species not covered in these publications were made by the following:

Gary Atkinson.....ARTHROPODA:Isopoda

J.W. Wacasey.....BRACHIOPODA-PRIAPULIDA

Karin Rieman-Zerneck.....COELENTERATA:Anthozoa

J.E. Lovrity.....PORIFERA

J.W. Wacasey and Peter Frank.....SIPUNCULA

The nemerteans are included in the lists but have not been identified to species. A few specimens that had been misplaced and subsequently found were identified by J.W. Wacasey, Gary Atkinson and A.A. Mohammed.

Most specimens considered in earlier publications are deposited in the National Museum of Natural History in Ottawa, Ontario. A few are deposited in the Redpath Museum of McGill University in Montreal, Québec. Specimens identified since the completion of the published accounts represent only a small portion of the original collection and are located at the Arctic Biological Station at Ste-Anne-de-Bellevue, Québec. The disposition of individual specimens is not known.

The names of some species have been changed to conform to the more recent literature, but the former name is given in parentheses. Most changes involve only the genus, but species and subspecies names are sometimes involved. Names presently recognized as varieties or forms are also indicated within parentheses; this occurs most frequently in the Pelecypoda. Species are listed alphabetically by phylum, category (includes class to suborder), genus and species. Results from recent determinations together with information taken from the published

accounts are combined in a single species list for each station. The collation is not only useful for demonstrating the faunal diversity of benthic communities in Ungava Bay but also serves as a record of the geographical distribution of the species.

RESULTS AND DISCUSSION

Ungava Bay, with a calculated area of 60,000 m^2, extends southward from the eastern end of Hudson Strait. It is located near the confluence of the Labrador current with outflowing Hudson Strait and inflowing North Atlantic water. These conditions result in nutrient laden waters with concurrent high primary production. The proximity of Ungava Bay to this confluence together with the high tidal amplitudes within the bay make for a well mixed body of water that supports a diverse and productive fauna. Tidal amplitudes may reach 14.8 m, but means range from 4.6 to 9.3 m (Canadian Hydrographic Service, 1986). Depths are less than 200 m except for a deep trough extending from Hudson Strait into the northeast sector of the bay. The bottom communities are thus composed primarily of shelf fauna. Station 103 was the only station with a depth over 200 m. Temperatures at the deeper stations were usually negative and salinities ranged from 28.54 to 32.84°/∞ (Table 2).

Coordinates and associated data for the 77 stations are listed in Tables 1 and 2 respectively. These consist of collection date and station depths. Time of collection, temperature and salinity near the bottom are included where available.

Lists of benthic invertebrates are presented for 77 (Tables 4-79) of the 153 stations (Dunbar and Grainger 1952, Grainger 1954a) occupied within Ungava Bay below a line extending from Cape Hopes Advance in the west to Killinek Island in the east. A compilation of species from all stations (Table 3) resulted in 411 species, distributed among 24 taxa. These are presented in the same alphabetical order as the list of species for each station. Few organisms under 1 mm in size were collected explaining why there are few or no representatives of some taxa such as protozoans, ostracods, tanaidaceans, nematodes and benthic copepods. For the same reason, some small polychaetes, amphipods, cumaceans and isopods were also overlooked. Quantitative sampling in other eastern arctic localities (Wacasey et al. 1979, 1980) has shown polychaetes and amphipods to be the dominant groups, each with over one hundred species.

The station lists of benthic invertebrates do not reflect the full complement of species of the community because of the inconsistent treatment of collections. A few stations (33, 102, 103, 107, 126, 201c, 203, 231) were sampled more intensively than others, and these, each with over one hundred species, give a more comprehensive picture of the community composition.

Comparison of species lists demonstrates that many species are widely distributed. One third or 25 of the stations were intertidal stations and species were less numerous possibly because of the long ice-covered period. The intertidal fauna includes characteristic species which prefer the shallow water habitat such as the barnacle Balanus balanoides; amphipods Gammarus setosus, G. oceanicus, and

Onisimus litoralis; the gastropod Littorina saxatilis; and bivalves Mytilus edulis and Macoma balthica. Other species that may occur in the intertidal zone as well as in deeper water are the anemone Tealia felina, the polychaete Harmothoe imbricata and the bivalves Crenella faba and Mya truncata. During the open water season, motile species, such as amphipods, shrimp and the crab Hyas coarctatus, may be found in shallow subtidal areas.

ACKNOWLEDGEMENTS

We thank the many workers involved in collecting, sorting and curating the collections. Recognition is particularly extended to a number of individuals who assisted in processing samples and in collecting supplementary information. A.A. Mohammed and J.E. Lovrity helped with the maintenance of the collections and the identification of some specimens. L. Glasspoole and D.M. Moore also helped with the maintenance and sorting of various taxa. R. Clarke assisted in the tedious task of compiling the lists of species and in checking entries for accuracy and completeness. E.H. Grainger provided some collection data and was helpful in resolving occasional inconsistencies relating to station numbers, locations, and dates of occupation.

REFERENCES

Bousfield, E.L. 1955. The cirripede crustacea of the Hudson Strait region, Canadian Eastern Arctic. J. Fish. Res. Board Can. 12:762-767.

Calder, D.R. 1970. Thecate hydroids from the shelf waters of northern Canada. J. Fish. Res. Board Can. 27:1501-1547.

_____. 1972. Some athecate hydroids from the shelf waters of northern Canada. J. Fish. Res. Board Can. 29:217-228.

Canadian Hydrographic Service. Canadian Tide and Current Tables. Vol. 4. Arctic and Hudson Bay 1986.

Corey, S. 1981. Distribution of certain Arctic and Subarctic Cumacea in Canadian waters. Can. J. Zool. 59:1726-1733.

Dunbar, M.J. 1949. Calanus, new arctic research vessel. Arctic 2:56-57.

_____. 1952. The Ungava Bay problem. Arctic 5:4-16.

_____. 1954. The amphipod crustacea of Ungava Bay, Canadian Eastern Arctic. J. Fish. Res. Board Can. 11:709-798.

_____. 1956. The Calanus expeditions in the Canadian arctic, 1947 to 1955. Arctic 9(3):178-190.

Dunbar, M.J. and E.H. Grainger. 1952. Station list of the Calanus expeditions, 1947-1950. J. Fish. Res. Board Can. 9(2)65-82.

Grainger, E.H. 1954a. Station list of the Calanus expeditions, 1951-52, together with Frobisher Bay stations, 1948, 1950, 1951, and Resolution Island stations, 1950. J. Fish. Res. Board Can. 11(1):98-105.

_____. 1954b. Polychaetous annelids of Ungava Bay, Hudson Strait, Frobisher Bay and Cumberland Sound. J. Fish. Res. Board Can. 11(5):507-528.

_____. 1955. Echinoderms of Ungava Bay, Hudson Strait, Frobisher Bay and Cumberland Sound. J. Fish. Res. Board Can. 12(6):899-916.

_____. 1966. Sea stars (Echinodermata: Asteroidea) of arctic North America. Bull. Fish. Res. Board Can. 152:70p.

Hedgpeth, J.W. 1963. Pycnogonida of the North American Arctic. J. Fish. Res. Board Can. 20(5):1315-1348.

Lubinsky, I. 1980. Marine bivalve molluscs of the Canadian central and eastern Arctic: faunal composition and zoogeography. Can. Bull. Fish. Aquat. Sci. No. 207:111p.

Macpherson, E. 1971. The marine molluscs of Arctic Canada. National Museum of Natural Sciences, Publications in Biological Oceanography, No. 3:149p.

Powell, N.A. 1968. Bryozoa (Polyzoa) of Arctic Canada. J. Fish. Res. Board Can. 25(11):2269-2320.

Squires, H.J. 1957. Decapod Crustacea of the Calanus expeditions in Ungava Bay, 1947 to 1950. Can. J. Zool. 35:463-494.

Trason, W.B. 1964. Ascidians of the Canadian Arctic waters. J. Fish. Res. Board Can. 21(6):1505-1517.

Wacasey, J.W., E.G. Atkinson and L. Glasspoole. 1979. Zoobenthos data from upper Frobisher Bay, 1967-1973. Can. Data Rep. Fish. Aquat. Sci. 164:99p.

Wacasey, J.W., E.G. Atkinson and L. Glasspoole. 1980. Zoobenthos data from inshore stations of upper Frobisher Bay, 1969-1976. Can. Data Rep. Fish. Aquat. Sci. 205:42p.

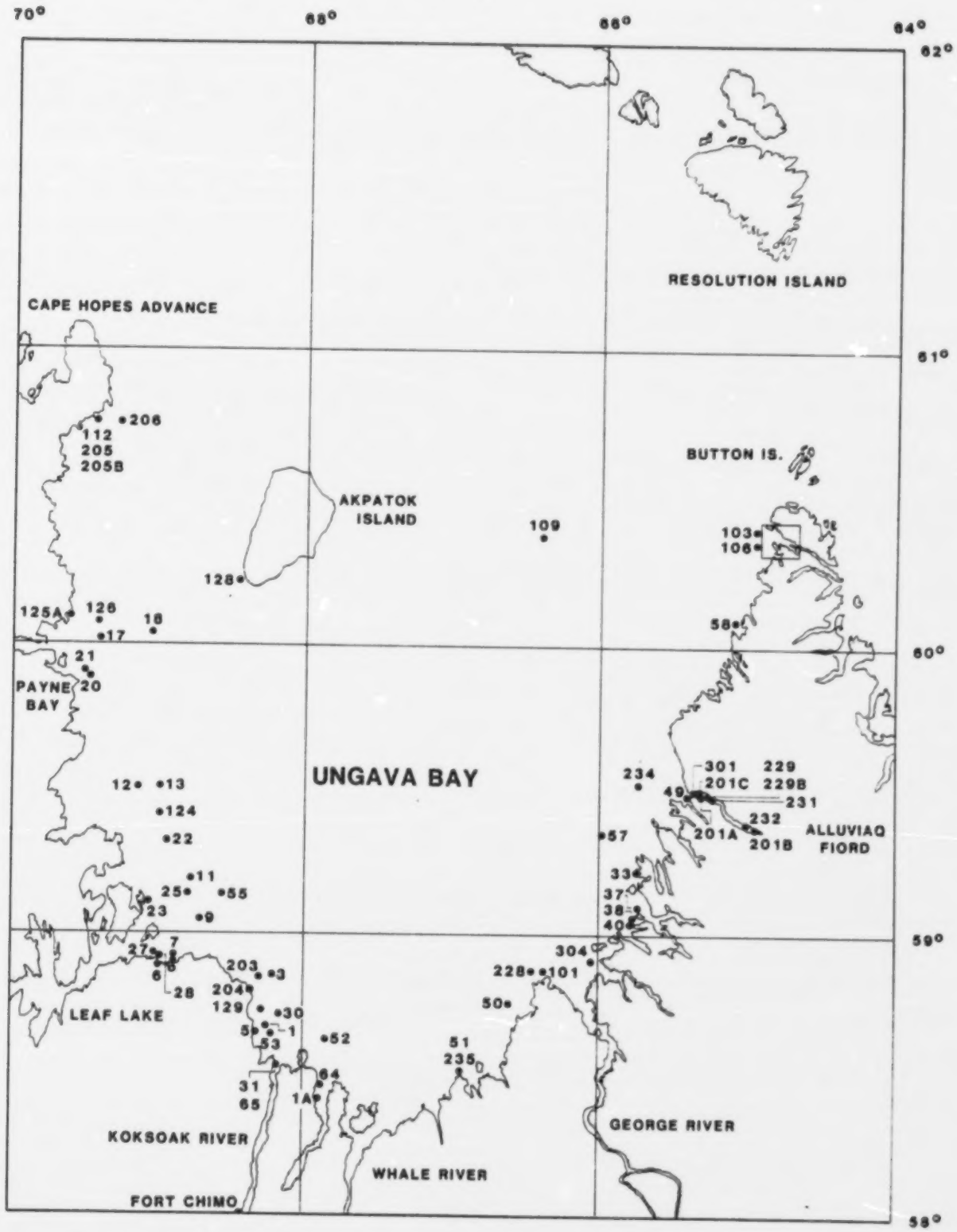

Fig. 1. Locations of benthic stations sampled in Ungava Bay, 1947-1951.

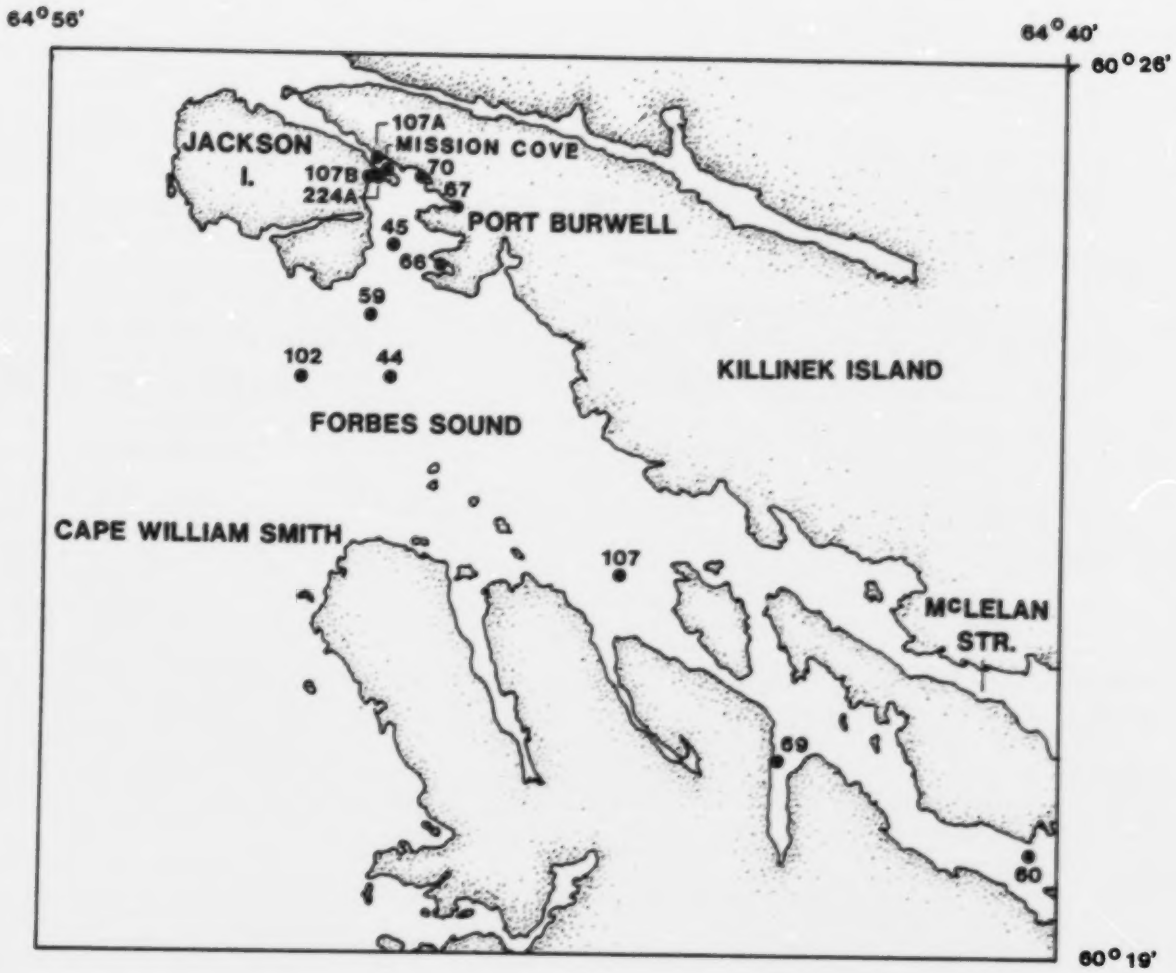

Fig. 2. Locations of benthic stations sampled in the Forbes Sound area (rectangle of Fig. 1).

Table 1. Coordinates of Ungava Bay stations that were sampled from 1947 to 1951.

Station	North Latitude	West Longitude	Station	North Latitude	West Longitude
1947			1949		
1	58°39'	68°15'	101	58°52'	66°23'
1A	58°24.5'	67°58'	102	60°23.5'	64°52'
3	58°50'	68°13'	103	60°24'	64°58'
5	58°39'	68°20'	106	60°21'	64°58'
6	58°52'	68°58'	107	60°22'	64°47'
7	58°55'	68°53'	107A	60°25.2'	64°50.8'
8	58°52'	68°54'	Mission Cove	60°25.1'	64°50.8'
9	59°02'	68°43'	107B	60°25.1'	64°50.9'
11	59°11'	68°47'	109	60°23'	66°25'
12	59°30'	69°10'	112	60°46'	69°27'
13	59°30'	69°00'	124	59°25'	69°00'
17	60°01'	69°25'	125A	60°03'	69°37'
18	60°02'	69°03'	126	60°04'	69°26'
20	59°53'	69°29'	128	60°14'	68°26'
21	59°54'	69°31'	129	58°43.3'	68°17'
22	59°18'	68°57'			
23	59°05'	69°04'	1950		
25	59°08'	68°48'			
27	58°55.5'	69°01'	201A	59°29'	65°18.5'
28	58°54.5'	68°59'	201B	59°22'	64°58'
30	58°42.5'	68°10'	201C	59°29.5'	65°20.5'
31	58°31.5'	68°12'	203	58°50'	68°18'
33	59°13'	65°45'	204	58°47'	68°23'
37	59°05.5'	65°45'	205	60°46'	69°27'
38	59°03'	65°47'	205B	60°46'	69°27'
40	59°02'	65°48'	206	60°45'	69°17'
44	60°23.5'	64°50.5'	224A	60°25.1'	64°50.8'
45	60°24.5'	64°50.5'	228	58°52'	66°28'
49	59°29'	65°26'	229	59°29'	65°17.5'
50	58°45'	66°37'	229B	59°29'	65°17.5'
51	58°29.5'	66°55'	231	59°28.5'	65°15'
52	58°37'	67°51'	232	59°23'	65°01'
			234	59°31'	65°45'
1948			235	58°29.5'	66°55'
53	58°38'	68°13'	1951		
55	59°08'	68°34'			
57	59°21'	66°00'	301	59°29.5'	65°20'
58	60°05'	65°06'	304	58°54'	66°03'
59	60°24'	64°51'			
60	60°19.8'	64°40.5'			
64	58°27.5'	67°56'			
65	58°31.5'	68°12'			
66	60°24.4'	64°50'			
67	60°24.8'	64°49.6'			
69	60°20.5'	64°44.5'			
70	60°25.1'	64°50.2'			

Table 2. Associated data for stations sampled in Ungava Bay from 1947 to 1951.

Station	Date	Time (AST)	Time (GMT)	Water Depth (m)	Temp. (°C)	Sal. (°/∞)
1	24 Jun 47			18		
1A	24 Jun 47	0600	1000	shore		
3	29 Jun 47			29		
5	29 Jun 47			shore		
6	3 Jul 47			shore		
7	3 Jul 47			10		
8	5 Jul 47			shore		
9	11 Jul 47			24		
11	12 Jul 47			46		
12	12 Jul 47			shore		
13	13 Jul 47			55		
17	17 Jul 47			62		
18	17 Jul 47			84		
20,21	18 Jul 47			64		
22	18 Jul 47			11		
23	19 Jul 47			shore		
25	19 Jul 47			35		
27	19 Jul 47			48		
28	19 Jul 47			27		
30	20 Jul 47			36		
31	5 Aug 47			2		
33	8 Aug 47			27		
	10 Aug 47			27		
37	11 Aug 47			4		
38	11 Aug 47			-		
40	16 Aug 47			shore		
44	19 Aug 47			80		
45	23 Aug 47			36		
49	25 Aug 47			shore		
50	28 Aug 47			-		
51	29 Aug 47			6		
52	39 Aug 47			17		
53	10 Jul 48			9		
55	Jul 48			85		
57	27 Jul 48			96		
58	28 Jul 48			20		
59	31 Jul 48			15		
60	2 Aug 48			36		
64	4 Jul 48			shore		
65	4 Jul 48			shore		
66	7 Aug 48			shore		
67	8 Aug 48			shore		
69	16 Aug 48			shore		
70	17 Aug 48			shore		

Table 2. Continued.

Station	Date	Time (AST)	Time (GMT)	Water Depth (m)	Temp. (°C)	Sal. (°/∞)
101	26 Jun 49			18		
102	30 Jun 49	1315	1715	128		
103	6 Jul 49	1255	1655	146		
	6 Jul 49			255	-0.90	32.32
	7 Aug 49	1310	1710	128		
106	7 Jul 49	1215	1615	109		
107	7 Jul 49	1345	1745	73		
107A	9 Jul 49			shore		
Mission Cove	10 Jul 49			shore		
107B	11 Jul 49			shore		
109	16 Jul 49			110	-0.97	32.47
112	18 Jul 49			shore		
124	20 Aug 49			14		
125A	23 Aug 49			13		
126	23 Aug 49	1230	1630	73	2.07	31.87
128	24 Aug 49			185	-0.79	32.84
129	25 Aug 49			-		
201A	27 Jun 50			shore		
201B	28 Jun 50			shore		
201C	29 Jun 50	1330	1730	80		
203	8 Jul 50	1515	1915	30		
204	9 Jul 50			shore		
205	16 Jul 50			shore		
205B	16 Jul 50			18		
206	15 Jul 50	1325	1725	91		
224A	18 Aug 50			shore		
228	25 Aug 50			14		
229	26 Aug 50			13		
229B	28 Aug 50			shore		
231	27 Aug 50			91		
232	27 Aug 50			10		
234	31 Aug 50	1100	1500	91	1.24	31.55
235	1 Sep 50			shore		
301	3 Jul 51			110	0.55	28.54
304	23 Jul 51			42		

Table 3. Species of benthic invertebrates collected from stations located in Ungava Bay, 1947-1951.

Species	No.	Species	No.
ANNELIDA:Polychaeta	57	Sabella crassicornis	
Ammotrypane aulogaster		Sabellides octocirrata	
Ampharete acutifrons		Scalibregma inflatum	
Amphicteis sundevalli		Scololos armiger	
Amphitrite cirrata		Sphaerodorum gracile	
Amphitrite groenlandica		Spio filicornis	
Arenicola marina		Syllis cornuta	
Asabellides sibirica		Terebellides stroemi	
Autolytus alexandri		Thelepus cincinnatus	
Autolytus prismaticus		Tomopteris planktonis	
Autolytus prolifer		Travisia forbesi	
Axiothella catenata			
Capitella capitata		ARTHROPODA:Amphipoda	98
Chaetozone setosa		Acanthonotozoma inflatum	
Chone infundibuliformis		Acanthonotozoma serratum	
Eteone longa		Aceroides l. latipes	
Euchone analis		Aeginina longicornis	
Eulalia bilineata		Ampelisca eschrichti	
Eusyllis blomstrandi		Ampelisca macrocephala	
Flabelligera affinis		Amphithopsis longicaudata	
Gattyana cirrosa		Anonyx lilljeborgi	
Glycera capitata		Anonyx nugax	
Harmothoe extenuata		Apherusa glacialis	
Harmothoe imbricata		Apherusa megalops	
Harmothoe nodosa		Apherusa mixtus	
Harmothoe oerstedi		Arctopleustes glabricauda	
Lanassa venusta		Arrhis phyllonyx	
Laphania boecki		Atylus carinatus	
Lumbrineris fragilis		Bathymedon obtusifrons	
Lysilla loveni		Boeckosimus affinis	
Lysippe labiata		Boeckosimus edwardsi	
Maldane sarsi		Boeckosimus plautus	
Melinna cristata		Byblis gaimardi	
Nephtys ciliata		Calliopius laeviusculus	
Nephtys longosetosa		Caprella septentrionalis	
Nereis pelagica		Dulichia spinosissima	
Nicolea zostericola		Dulichia tuberculata	
Onuphis conchylega		Dyopedos porrectus	
Owenia fusiformis		Ericthonius tolli	
Pectinaria granulata		Eurysteus melanops	
Pectinaria hyperborea		Eusirus cuspidatus	
Pherusa plumosa		Gammarellus homari	
Pholoe minuta		Gammarus oceanicus	
Phyllodoce groenlandica		Gammarus setosus	
Pista flexuosa		Gammarus wilkitzkii	
Pista maculata		Gitanopsis arctica	
Polyphysia crassa		Goesia depressa	
		Guernea nordenskioldi	

Table 3. Continued.

Species	Species	No.
ARTHROPODA:Amphipoda	Protomedeia fasciata	
Halirages fulvocinctus	Protomedeia grandimana	
Haploops setosa	Rhachotropis aculeata	
Haploops tubicola	Rhachotropis inflata	
Ischyrocerus anguipes	Rhachotropis oculata	
Ischyrocerus commensalis	Siphonoecetes typicus	
Ischyrocerus latipes	Socarnes bidenticulatus	
Ischyrocerus megacheir	Socarnes vahli	
Ischyrocerus nanoides	Stegocephalopsis ampulla	
Melita dentata	Stegocephalus inflatus	
Mesometopa neglecta	Stenopleustes olriki	
Metopa alderi	Syrrhoe crenulata	
Metopa glacialis	Tryphosella orchomenoides	
Metopa hearni	Westwoodilla brevicalcar	
Metopa longicornis	Westwoodilla megalops	
Metopa longirama	Weyprechtia pinguis	
Metopa norvegica		
Metopella carinata	ARTHROPODA:Cirripedia	2
Metopella longimana	Balanus balanoides	
Metopella nasuta	Balanus balanus	
Monoculodes edwardsi		
Monoculodes intermedius	ARTHROPODA:Cumacea	4
Monoculodes latimanus	Diastylis rathkei	
Monoculodes longirostris	Diastylis scorpioides	
Monoculodes tuberculatus	Lamprops fuscata	
Neopleustes boecki	Leucon nasicoides	
Neopleustes pulchellus		
Odius carinatus	ARTHROPODA:Decapoda	13
Oediceros saginatus	Argis dentata	
Onisimus glacialis	Eualus fabricii	
Onisimus litoralis	Eualus gaimardi	
Onisimus nanseni	Eualus gaimardi belcheri	
Orchomene macroserrata	Eualus macilentus	
Orchomene minuta	Hyas coarctatus	
Orchomene pinguis	Lebbeus groenlandicus	
Paramphithoe hystrix	Lebbeus polaris	
Parapleustes assimilis	Pagurus pubescens	
Parapleustes sinuipalma	Pandalus montagui	
Pardalisca cuspidata	Sabinea septemcarinata	
Paroediceros lynceus	Sclerocrangon boreas	
Paronesimus barentsi	Spirontocaris phippsi	
Photis tenuicornis	Spirontocaris spinus	
Pleustes medius		
Pleustes panoplus	ARTHROPODA:Isopoda	4
Pleusymtes buttoni	Arcturus baffini	
Pleusymtes glabroides	Janira tricornis	
Pontogeneia inermis	Mesidotea sabini	
Pontoporeia affinis	Munna kroyeri	

Table 3. Continued.

Species	No.
ARTHROPODA:Pycnogonida	5
Eurycyde hispida	
Nymphon brevitarse	
Nymphon grossipes	
Pseudopallene circularis	
Pseudopallene spinipes	
BRACHIOPODA	1
Hemithyris psittacea	
CHORDATA:Ascidiacea	21
Aplidium glabrum	
Ascidia callosa	
Ascidia sp.	
Boltenia echinata	
Boltenia ovifera	
Botrylloides aureum	
Cnemidocarpa finmarkiensis	
Cnemidocarpa rhizopus	
Dendrodoa aggregata	
Dendrodoa grossularia	
Dendrodoa sp.	
Didemnum albidum	
Distaplia clavata	
Halocynthia pyriformis	
Kukenthalia borealis	
Molgula griffithsi	
Pelonaia corrugata	
Polycitor vitreus	
Styela coriacea	
Styela rustica	
Synoicum sp.	
COELENTERATA:Anthozoa	6
Actinostola spetsbergensis	
Drifa glomerata	
Gersemia rubiformis	
Hormathia nodosa	
Stomphia coccinea	
Tealia felina	
COELENTERATA:Hydrozoa	32
Abietinaria abietina	
Calycella gracilis	
Calycella syringa	
Campanularia groenlandica	
Campanularia integra	
Campanularia speciosa	
Campanularia verticillata	
Campanularia volubilis	
Coryne pusilla	
Eudendrium arbusculum	
Eudendrium capillare	
Eudendrium rameum	
Eudendrium tenellum	
Filellum serpens	
Gonothyraea loveni	
Halecium curvicaule	
Halecium labrosum	
Halecium muricatum	
Halecium speciosum	
Lafoea dumosa	
Lafoea fruticosa	
Lafoea gracillima	
Obelia longissima	
Rhizogeton nudus	
Sarsia tubulosa	
Sertularella polyzonias	
Sertularella tricuspidata	
Sertularia mirabilis	
Sertularia schmidti	
Sertularia similis	
Sertularia tenera	
Tetrapoma quadridentatum	
ECHINODERMATA:Asteroidea	10
Ctenodiscus crispatus	
Henricia eschrichti	
Leptasterias groenlandica	
Leptasterias polaris	
Pteraster militaris	
Solaster endeca	
Solaster papposus	
Solaster syrtensis	
Stephanasterias albula	
Urasterias lincki	
ECHINODERMATA:Crinoidea	1
Heliometra glacialis	
ECHINODERMATA:Echinoidea	1
Strongylocentrotus droebachiensis	

Table 3. Continued.

Species	No.
ECHINODERMATA:Holothuroidea	4
Cucumaria calcigera	
Cucumaria frondosa	
Myriotrochus rinki	
Psolus fabricii	
ECHINODERMATA:Ophiuroidea	6
Gorgonocephalus arcticus	
Ophiacantha bidentata	
Ophiopholis aculeata	
Ophiura robusta	
Ophiura sarsi	
Stegophiura nodosa	
ECTOPROCTA	70
Alcyonidium gelatinosum	
Bidenkapia spitzbergensis	
Callopora craticula	
Cauloramphus cymbaeformis	
Celleporina surcularis	
Celleporina ventricosa	
Cheilopora sincera	
Cribrilina annulata	
Cystisella elegantula	
Cystisella saccata	
Dendrobeania murrayana	
Diplosolen obelia	
Doryporella spathulifera	
Electra arctica	
Escharella abyssicola	
Escharella connectens	
Escharella immersa	
Escharella thompsoni	
Escharella ventricosa	
Eucratea loricata	
Hincksina nigrans	
Hincksipora spinulifera	
Hippoporella hippopus	
Hippoporina cancellata	
Hippoporina propinqua	
Hippoporina reticulatopunctata	
Hippothoa hyalina	
Idmonea atlantica	
Kinetoskias arborescens	
Lepraliella contigua	
Lichenopora hispida	
Lichenopora verrucaria	
Membranipora serrulata	
Membraniporella crassicosta	
Microporella ciliata	
Microporina articulata	
Myriapora coarctica	
Myriapora subgracila	
Myriozoella plana	
Parasmittina jeffreysi	
Phidolopora elongata	
Porella acutirostris	
Porella compressa	
Porella concinna	
Porella minuta	
Porella smitti	
Posterula sarsi	
Reginella spitzbergensis	
Rhamphostomella bilaminata	
Rhamphostomella costata	
Rhamphostomella hincksi	
Rhamphostomella ovata	
Schizomavella porifera	
Schizoporella obesa	
Scrupocellaria arctica	
Securiflustra securifrons	
Smittina groenlandica	
Smittina majuscula	
Smittina mucronata	
Smittina rigida	
Stephanosella biaperta	
Stomachetosella cruenta	
Stomachetosella limbata	
Stomachetosella sinuosa	
Tegella arctica	
Tegella armifera	
Tricellaria gracilis	
Tricellaria peachi	
Tricellaria ternata	
Umbonula arctica	
MOLLUSCA:Amphineura	2
Ischnochiton albus	
Tonicella marmorea	

Table 3. Continued.

Species	No.
MOLLUSCA:Gastropoda	39
Acmaea testudinalis	
Admete couthouyi	
Astyris rosacea	
Boreotrophon fabricii	
Boreotrophon truncatus	
Buccinum ciliatum	
Buccinum cyaneum	
Buccinum glaciale	
Buccinum scalariforme	
Buccinum totteni	
Buccinum undatum	
Capulacmaea radiata	
Colus islandicus	
Colus spitzbergensis	
Colus tortuosus	
Cylichna alba	
Lepeta caeca	
Littorina saxatilis	
Lunatia pallida	
Margarites costalis	
Margarites groenlandicus	
Margarites helicinus	
Margarites umbilicalis	
Natica clausa	
Neptunea heros	
Oenopota bicarinata	
Oenopota elegans	
Oenopota pyramidalis	
Oenopota turricula	
Onchidiopsis kingmaruensis	
Plicifusus kroyeri	
Tachyrhynchus erosus	
Tachyrhynchus reticulatus	
Trichotropis bicarinata	
Trichotropis borealis	
Trichotropis conica	
Velutina undata	
Velutina velutina	
Volutopsius norvegicus	
MOLLUSCA:Pelecypoda	24
Astarte borealis	
Astarte montagui	
Chlamys islandica	
Clinocardium ciliatum	
Crenella decussata	
Crenella faba	
Cyclocardia borealis	
Hiatella arctica	
Lyonsia arenosa	
Macoma balthica	
Macoma calcarea	
Macoma moesta	
Musculus corrugatus	
Musculus discors	
Musculus niger	
Mya truncata	
Mytilus edulis	
Nucula belloti	
Nuculana minuta	
Nuculana pernula	
Pandora glacialis	
Serripes groenlandicus	
Thyasira gouldi	
Yoldia hyperborea	
NEMERTINA	1
Nemertean	
PORIFERA	7
Homoeodictya palmata	
Lissodendoryx indistincta	
Mycale lingua	
Phakettia arctica	
Phakettia cribrosa	
Phakettia ventilabrum	
Phakettia sp.	
PRIAPULIDA	1
Halicryptus spinulosus ?	
SIPUNCULA	2
Golfingia eremita	
Golfingia margaritacea	
TOTAL	411

Table 4. Benthic invertebrates collected by net from station 1, 24 Jun 1947.

Species	Species
ANNELIDA:Polychaeta	ARTHROPODA:Cumacea
Autolytus alexandri (as A. verrilli)	Diastylis rathkei
Autolytus prismaticus	
Autolytus prolifer	
Eteone longa	
ARTHROPODA:Amphipoda	
Apherusa glacialis	
Caprella septentrionalis	
Gammarellus homari	
Ischyrocerus anguipes	
Oediceros saginatus	
Onisimus glacialis (as Pseudalibrotus)	
Onisimus litoralis (as Pseudalibrotus littoralis)	
Paroediceros lynceus	
Pontogeneia inermis	
Pontoporeia affinis	

Table 5. Benthic invertebrates collected by hand from station 1A, 24 Jun 1947.

Species
ANNELIDA:Polychaeta
Harmothoe imbricata
ARTHROPODA:Amphipoda
Gammarus oceanicus (as G. zaddachi oceanicus)
Gammarus setosus
ARTHROPODA:Cirripedia
Balanus balanoides
MOLLUSCA:Gastropoda
Littorina saxatilis
MOLLUSCA:Pelecypoda
Crenella faba
Macoma balthica

Table 6. Benthic invertebrates collected by dredge from station 3, 29 Jun 1947.

Species	Species
ANNELIDA:Polychaeta	ECHINODERMATA:Asteroidea
Autolytus prismaticus	*Leptasterias groenlandica*
ARTHROPODA:Amphipoda	MOLLUSCA:Gastropoda
Gammarellus homari	*Plicifusus kroyeri*
Orchomene macroserrata	
Pontogeneia inermis	MOLLUSCA:Pelecypoda
	Crenella faba
ARTHROPODA:Decapoda	*Musculus discors* (f. laevigatus & substriatus)
Lebbeus groenlandicus	
Lebbeus polaris	
Spirontocaris spinus	
ARTHROPODA:Pycnogonida	
Pseudopallene circularis	
CHORDATA:Ascidiacea	
Boltenia ovifera	
Dendrodoa aggregata	

Table 7. Benthic invertebrates collected by hand from station 5, 29 Jun 1947.

Species
ARTHROPODA:Amphipoda
Gammarus oceanicus (as *G. zaddachi oceanicus*)
Mesometopa neglecta (as *Metopella*)
ARTHROPODA:Cirripedia
Balanus balanoides
ARTHROPODA:Isopoda
Arcturus baffini
MOLLUSCA:Gastropoda
Littorina saxatilis
MOLLUSCA:Pelecypoda
Crenella faba
Mytilus edulis

Table 8. Benthic invertebrates collected by hand from station 6, 3 Jul 1947.

Species
ARTHROPODA:Amphipoda
Onisimus glacialis (as Pseudalibrotus)
Onisimus litoralis (as Pseudalibrotus littoralis)
ARTHROPODA:Cirripedia
Balanus balanoides
MOLLUSCA:Gastropoda
Littorina saxatilis

Table 9. Benthic invertebrates collected by dredge from station 7, 3 Jul 1947.

Species	Species
ANNELIDA:Polychaeta	ECTOPROCTA
Autolytus alexandri (As A. verrilli)	Hippoporina reticulatopunctata
Autolytus prismaticus	
ARTHROPODA:Amphipoda	
Apherusa glacialis	
Apherusa megalops (as Halirages)	
Gamarellus homari	
Gammarus wilkitzkii	
Ischyrocerus anguipes	
Onisimus litoralis (as Pseudalibrotus littoralis)	
Pontogeneia inermis	
ARTHROPODA:Cumacea	
Diastylis rathkei	
Lamprops fuscata	
ARTHROPODA:Decapoda	
Eualus fabricii	
Lebbeus polaris	

Table 10. Benthic invertebrates collected by hand from station 8, 5 Jul 1947.

Species
ARTHROPODA:Amphipoda
Gammarus oceanicus (as G. zaddachi oceanicus)
Gammarus setosus
ARTHROPODA:Cirripedia
Balanus balanoides
MOLLUSCA:Gastropoda
Littorina saxatilis
MOLLUSCA:Pelecypoda
Mytilus edulis

Table 11. Benthic invertebrates collected by net from station 9, 11 Jul 1947.

Species
ANNELIDA:Polychaeta
Autolytus alexandri (as A. verrilli)
Autolytus prismaticus
ARTHROPODA:Amphipoda
Apherusa glacialis
Apherusa megalops (as Haligares)
Boeckosimus edwardsi (as Onisimus)
Ischyrocerus anguipes
Metopa longirama
Oediceros saginatus
Onisimus litoralis (as Pseudalibrotus littoralis)
Onisimus nanseni (as Pseudalibrotus)
Pontogeneia inermis

Table 12. Benthic invertebrates collected by dredge from station 11, 12 Jul 1947.

Species	Species
ANNELIDA:Polychaeta	COELENTERATA:Hydrozoa
Phyllodoce groenlandica	Calycella syringa
	Sertularia similis
ARTHROPODA:Amphipoda	
Anonyx nugax	ECHINODERMATA:Holothuroidea
Ericthonius tolli	Cucumaria frondosa (as. C. japonica)
Parapleustes sinuipalma	
Pleustes panoplus	ECTOPROCTA
	Cauloramphus cymbaeformis
ARTHROPODA:Decapoda	Hippothoa hyalina
Argis dentata	Myriozoella plana
Eualus fabricii	Tegella armifera
Eualus gaimardi	
Lebbeus groenlandicus	MOLLUSCA:Gastropoda
Lebbeus polaris	Buccinum scalariforme (as B. tenue)
Pagurus pubescens (as Eupagurus kroyeri)	Natica clausa
Spirontocaris spinus	
ARTHROPODA:Isopoda	
Mesidotea sabini	

Table 13. Benthic invertebrates collected by hand from station 12, 12 Jul 1947.

Species
ANNELIDA:Polychaeta
Harmothoe imbricata
ARTHROPODA:Cirripedia
Balanus balanoides
MOLLUSCA:Pelecypoda
Astarte borealis

Table 14. Benthic invertebrates collected by net from station 13, 13 Jul 1947.

Species	Species
ANNELIDA:Polychaeta	ECTOPROCTA
Autolytus prismaticus	Bidenkapia spitzbergensis
Chaetozone setosa	
Harmothoe extenuata (as Lagisca rarispina)	MOLLUSCA:Gastropoda
Pista maculata	Buccinum glaciale
Syllis cornuta	Buccinum undatum
	Cylichna alba
ARTHROPODA:Amphipoda	Velutina undata
Acanthonotozoma serratum	
Ampelisca eschrichti	MOLLUSCA:Pelecypoda
Anonyx lilljeborgi (var. setosus)	Muculus discors (f. laevigatus)
Anonyx nugax	Nuculana minuta
Apherusa glacialis	
Byblis gaimardi	
Metopa glacialis (as M. cariana)	
Monoculodes latimanus	
Monoculodes tuberculatus	
Onisimus glacialis (as Pseudalibrotus)	
Pardalisca cuspidata	
Paroediceros lynceus	
Rhachotropis inflata (as Rachotropis)	
Stenopleustes olriki (as Sympleustes)	
Syrrhoe crenulata	
ARTHROPODA:Cumacea	
Diastylis rathkei	
ARTHROPODA:Decapoda	
Eualus fabricii	
Lebbeus groenlandicus	
Spirontocaris phippsi	
Spirontocaris spinus	
BRACHIOPODA	
Hemithyris psittacea	
COELENTERATA:Hydrozoa	
Halecium curvicaule	
Lafoea gracillima	
ECHINODERMATA:Asteroidea	
Henricia eschrichti	
Leptasterias groenlandica	
ECHINODERMATA:Ophiuroidea	
Ophiacantha bidentata	

Table 15. Benthic invertebrates collected by long line from station 17, 17 Jul 1947.

Species
COELENTERATA:Anthozoa
Tealia felina
ECHINODERMATA:Ophiuroidea
Ophiacantha bidentata
MOLLUSCA:Gastropoda
Cylichna alba
MOLLUSCA:Pelecypoda
Astarte borealis (f. typica)

Table 16. Benthic invertebrates collected by net from station 18, 17 Jul 1947.

Species	Species
ANNELIDA:Polychaeta	ARTHROPODA:Cumacea
Autolytus prismaticus	Diastylis rathkei
Harmothoe extenuata (as Lagisca rarispina)	Leucon nasicoides
Nereis pelagica	ARTHROPODA:Decapoda
Nicolea zostericola	Eualus fabricii
Sphaerodorum gracile (as Ephesia gracilis)	Eualus gaimardi
	Lebbeus groenlandicus
ARTHROPODA:Amphipoda	Lebbeus polaris
Acanthonotozoma inflatum	Pandalus montagui
Ampelisca eschrichti	Spirontocaris phippsi
Apherusa glacialis	Spirontocaris spinus
Bathymedon obtusifrons	CHORDATA:Ascidiacea
Byblis gaimardi	Boltenia ovifera
Dyopedos porrectus (as Dulichia porrecta)	ECHINODERMATA:Asteroidea
Ericthonius tolli	Leptasterias polaris (as Asterias)
Eurysteus melanops	
Eusirus cuspidatus	ECHINODERMATA:Echinoidea
Gitanopsis arctica	Strongylocentrotus droebachiensis
Ischyrocerus anguipes	
Ischyrocerus commensalis	MOLLUSCA:Gastropoda
Ischyrocerus latipes	Boreotrophon fabricii
Ischyrocerus megacheir	Oenopota elegans
Metopa norvegica	Tachyrhynchus reticulatus
Metopella nasuta	
Monoculodes latimanus	MOLLUSCA:Pelecypoda
Monoculodes tuberculatus	Astarte montagui (f. striata)
Onisimus glacialis (as Pseudalibrotus)	Crenella decussata
Onisimus litoralis (as Pseudalibrotus littoralis)	
Onisimus nanseni (as Pseudalibrotus)	
Orchomene macroserrata	
Parapleustes assimilis	
Pardalisca cuspidata	
Paroediceros lynceus	
Photis tenuicornis	
Pleustes panoplus	
Rhachotropis aculeata (as Rachotropis)	
Rhachotropis inflata (as Rachotropis)	
Siphonoecetes typicus	
Stenopleustes olriki (as Sympleustes)	
Syrrhoe crenulata	
Westwoodilla megalops	

Table 17. Benthic invertebrates collected by dredge from station 20-21, 18 Jul 1947.

Species
ANNELIDA:Polychaeta
Ammotrypane aulogaster
Amphitrite cirrata
Chaetozone setosa
Chone infundibuliformis
Harmothoe extenuata (as Lagisca rarispina)
Nephtys ciliata (as Nephthys)
ARTHROPODA:Amphipoda
Ampelisca eschrichti
Anonyx lilljeborgi (var. setosus)
Anonyx nugax
Anonyx nugax (var. spinosus)
Boeckosimus plautus (as Onisimus)
Ericthonius tolli
Orchomene macroserrata
Paronesimus barentsi
Protomedeia grandimana
Socarnes vahli
ARTHROPODA:Cumacea
Diastylis rathkei
ARTHROPODA:Decapoda
Argis dentata
Eualus fabricii
Eualus gaimardi
Hyas coarctatus
Lebbeus groenlandicus
Lebbeus polaris
CHORDATA:Ascidiacea
Boltenia echinata
Dendrodoa aggregata
Styela rustica
COELENTERATA:Hydrozoa
Calycella syringa
ECHINODERMATA:Asteroidea
Leptasterias groenlandica
ECTOPROCTA
Bidenkapia spitzbergensis
Cystisella saccata
Escharella ventricosa
Hincksina nigrans
Hippothoa hyalina
Myriozoella plana
Parasmittina jeffreysi
Porella acutirostris
MOLLUSCA:Gastropoda
Boreotrophon truncatus
Tachyrhynchus reticulatus
Velutina velutina
MOLLUSCA:Pelecypoda
Astarte borealis
Astarte montagui (f. warhami)
Clinocardium ciliatum
Macoma calcarea
Musculus discors (f. laevigatus)
Pandora glacialis
Thyasira gouldi

Table 18. Benthic invertebrates collected by net from station 22, 18 Jul 1947.

Species
ARTHROPODA:Amphipoda
Aeginina longicornis
Anonyx nugax
Monoculodes latimanus
Orchomene pinguis (as *Orchomenella*)
ARTHROPODA:Cumacea
Diastylis rathkei

Table 19. Benthic invertebrates collected by hand from station 23, 19 Jul 1947.

Species
MOLLUSCA:Pelecypoda
Mytilus edulis
PORIFERA
Sponge

Table 20. Benthic invertebrates collected by dredge from station 25, 19 Jul 1947.

Species
ANNELIDA:Polychaeta
Nereis pelagica
Thelepus cincinnatus
MOLLUSCA:Pelecypoda
Hiatella arctica

Table 21. Benthic invertebrates collected by dredge from station 27, 19 Jul 1947.

Species
ANNELIDA:Polychaeta
Nereis pelagica
Thelepus cincinnatus
ARTHROPODA:Amphipoda
Anonyx nugax
ARTHROPODA:Decapoda
Eualus fabricii
MOLLUSCA:Pelecypoda
Hiatella arctica
Musculus discors (f. laevigatus & substriatus)

Table 22. Benthic invertebrates collected by dredge from station 28, 19 Jul 1947.

Species	Species
ANNELIDA:Polychaeta	COELENTERATA:Hydrozoa
Chone infundibuliformis	Halecium speciosum
Nereis pelagica	Lafoea gracillima
ARTHROPODA:Amphipoda	ECTOPROCTA
Orchomene macroserrata	Bidenkapia spitzbergensis
Socarnes vahli	Celleporina ventricosa
ARTHROPODA:Decapoda	Hippothoa hyalina
Eualus fabricii	Lichenopora hispida
Hyas coarctatus	Myriozoella plana
Lebbeus groenlandicus	Porella acutirostris
Lebbeus polaris	Smittina majuscula
Pagurus pubescens (as Eupagurus kroyeri)	Tegella armifera
CHORDATA:Ascidiacea	MOLLUSCA:Gastropoda
Aplidium glabrum	Boreotrophon fabricii
Boltenia ovifera	Lunatia pallida
Synoicum sp.	MOLLUSCA:Pelecypoda
COELENTERATA:Hydrozoa	Crenella faba
Calycella syringa	Hiatella arctica
Campanularia integra	
Campanularia volubilis	
Eudendrium capillare	

Table 23. Benthic invertebrates collected by dredge from station 30, 20 Jul 1947.

Species	Species
ANNELIDA:Polychaeta	MOLLUSCA:Gastropoda
Harmothoe extenuata (as Lagisca rarispina)	Margarites costalis
Nereis pelagica	MOLLUSCA:Pelecypoda
Thelepus cincinnatus	Astarte montagui (f. striata & warhami)
ARTHROPODA:Amphipoda	Hiatella arctica
Haploops setosa	Musculus discors (f. substriatus)
ARTHROPODA:Decapoda	
Lebbeus groenlandicus	
Sclerocrangon boreas	
BRACHIOPODA	
Hemithyris psittacea	
CHORDATA.Ascidiacea	
Ascidia sp.	
Botrylloides aureum	
Cnemidocarpa finmarkiensis	
Dendrodoa grossularia	
Distaplia clavata	
Molgula griffithsi (as M. griffithsii)	
Polycitor vitreus	
Synoicum sp.	
ECHINODERMATA:Asteroidea	
Henricia eschrichti	
ECHINODERMATA:Ophiuroidea	
Ophiacantha bidentata	
Ophiopholis aculeata	
Ophiura robusta	
ECTOPROCTA	
Bidenkapia spitzbergensis	
Cheilopora sincera	
Cystisella saccata	
Hippoporina cancellata	

Table 24. Benthic invertebrates collected by hand and net from station 31, 5 Aug 1947.

Species
ANNELIDA:Polychaeta
Spio filicornis
ARTHROPODA:Amphipoda
Calliopius laeviusculus
Gammarus oceanicus
Gammarus setosus
Onisimus litoralis (as *Pseudalibrotus littoralis*)
Pontoporeia affinis
MOLLUSCA:Pelecypoda
Mytilus edulis

Table 25. Benthic invertebrates collected by dredge from station 33, 8 and 10 Aug 1947.

Species	Species
ANNELIDA:Polychaeta	COELENTERATA:Hydrozoa
Ampharete acutifrons (as A. grubei)	Calycella syringa
Asabellides sibirica (as Pseudosabellides littoralis)	Campanularia groenlandica
Harmothoe imbricata	Campanularia verticillata
Harmothoe nodosa (as Eunoe)	Campanularia volubilis
Nephtys ciliata (as Nephthys)	Filellum serpens
Nereis pelagica	Gonothyraea loveni
Pectinaria granulata (as Cistenides)	Halecium labrosum
Pista maculata	Halecium muricatum
Sabella crassicornis (as S. fabricii)	Lafoea dumosa
ARTHROPODA:Amphipoda	Lafoea gracillima
Acanthonotozoma serratum	Sertularella tricuspidata
Aeginina longicornis	Sertularia schmidti
Apherusa megalops (as Halirages)	Sertularia similis
Dulichia spinosissima	Sertularia tenera
Ericthonius tolli	ECHINODERMATA:Asteroidea
Eusirus cuspidatus	Henricia eschrichti
Halirages fulvocinctus	Leptasterias groenlandica
Ischyrocerus latipes	ECHINODERMATA:Ophiuroidea
Metopella carinata	Ophiacantha bidentata
Parapleustes sinuipalma	Ophiopholis aculeata
Pontogeneia inermis	Ophiura robusta
Protomedeia fasciata	Stegophiura nodosa
Socarnes bidenticulatus	ECTOPROCTA
ARTHROPODA:Decapoda	Bidenkapia spitzbergensis
Argis dentata	Cheilopora sincera
Eualus fabricii	Cribrilina annulata
Eualus gaimardi	Cystisella elegantula
Eualus g. belcheri	Cystisella saccata
Lebbeus groenlandicus	Dendrobeania murrayana
Lebbeus polaris	Doryporella spathulifera
Pagurus pubescens (as Eupagurus kroyeri)	Escharella ventricosa
Sabinea septemcarinata	Eucratea loricata
Sclerocrangon boreas	Hincksina nigrans
Spirontocaris phippsi	Hincksipora spinulifera
Spirontocaris spinus	Hippoporina cancellata
ARTHROPODA:Pycnogonida	Hippoporina propinqua
Pseudopallene spinipes	Hippoporina reticulatopunctata
BRACHIOPODA	Hippothoa hyalina
Hemithyris psittacea	Kinetoskias arborescens
CHORDATA:Ascidiacea	Membraniporella crassicosta
Boltenia ovifera	Microporina articulata
	Myriozoella plana
	Porella concinna
	Rhamphostomella bilaminata

Table 25. Continued.

Species
ECTOPROCTA
Rhamphostomella ovata
Schizomavella porifera
Securiflustra securifrons
Smittina majuscula
Smittina mucronata
Stomachetosella cruenta
Tegella armifera
Tricellaria peachi
Tricellaria ternata
Umbonula arctica
MOLLUSCA:Gastropoda
Admete couthouyi
Boreotrophon truncatus
Buccinum ciliatum
Buccinum cyaneum
Buccinum glaciale
Buccinum scalariforme (as B. tenue)
Buccinum undatum
Capulacmaea radiata
Colus spitzbergensis
Colus tortuosus
Lunatia pallida
Margarites costalis
Margarites umbilicalis
Natica clausa
Oenopota pyramidalis
Trichotropis borealis
Trichotropis conica
Velutina undata
Volutopsius norvegicus
MOLLUSCA:Pelecypoda
Astarte borealis (f. placenta)
Astarte montagui (f. warhami)
Clinocardium ciliatum
Cyclocardia borealis (as Venericardia)
Hiatella arctica
Lyonsia arenosa
Macoma calcarea
Macoma moesta
Musculus corrugatus
Musculus discors (f. laevigatus & substriatus)
Musculus niger
Nucula belloti
Nuculana pernula
Pandora glacialis

Table 26. Benthic invertebrates collected by net from station 37, 11 Aug 1947.

Species
ANNELIDA:Polychaeta
Autolytus prismaticus
ARTHROPODA:Amphipoda
Caprella septentrionalis
Gammarus oceanicus
Pontogeneia inermis

Table 27. Benthic invertebrates collected by net from station 38, 11 Aug 1947.

Species
ANNELIDA:Polychaeta
Autolytus prismaticus
Eteone longa
ARTHROPODA:Amphipoda
Ischyrocerus latipes
Pontogeneia inermis

Table 28. Benthic invertebrates collected by hand and net from station 40, 16 Aug 1947.

Species	Species
ANNELIDA:Polychaeta	ARTHROPODA:Cumacea
Ampharete acutifrons (as A. grubei)	Diastylis rathkei
Harmothoe imbricata	
Lumbrineris gracilis (as Lumbrinereis)	COELENTERATA:Anthozoa
Scalibregma inflatum	Tealia felina
Travisia forbesi (as T. forbesii)	
	ECHINODERMATA:Asteroidea
ARTHROPODA:Amphipoda	Leptasterias polaris (as Asterias)
Apherusa mixtus (as Halirages)	
Calliopius laeviusculus	MOLLUSCA:Pelecypoda
Caprella septentrionalis	Crenella faba
Gammarus oceanicus	
Metopella carinata	
Monoculodes longirostris	
Oediceros saginatus	
Onisimus litoralis (as Pseudalibrotus littoralis)	
Pleusymtes buttoni (as Sympleustes)	
Pleusymtes glabroides (as Sympleustes)	
Pontogeneia inermis	

Table 29. Benthic invertebrates collected by net from station 44, 19 Aug 1947.

Species
ARTHROPODA:Amphipoda
Gammarus wilkitzkii
Metopa glacialis (as M. cariana)
Onisimus litoralis (as Pseudalibrotus littoralis)
Pontoporeia affinis

Table 30. Benthic invertebrates collected by dredge from station 45, 23 Aug 1947.

Species
ANNELIDA:Polychaeta
Axiothella catenata
Harmothoe imbricata
ARTHROPODA:Amphipoda
Ampelisca eschrichti
Ampelisca macrocephala
Boeckosimus plautus (as Onisimus plautus)
Byblis gaimardi
Haploops tubicola
Paroediceros lynceus
Paronesimus barentsi
Protomedeia grandimana
Stegocephalopsis ampulla
Weyprechtia pinguis
ARTHROPODA:Cumacea
Diastylis rathkei
ARTHROPODA:Decapoda
Argis dentata
Eualus fabricii
Eualus gaimardi
Eualus g. belcheri
Hyas coarctatus
Pagurus pubescens (as Eupagurus kroyeri)
Pandalus montagui
Spirontocaris phippsi
ARTHROPODA:Isopoda
Mesidotea sabini
CHORDATA:Ascidiacea
Boltenia echinata
Distaplia clavata
Styela coriacea
ECHINODERMATA:Holothuroidea
Cucumaria calcigera
Psolus fabricii
MOLLUSCA:Amphineura
Tonicella marmorea
MOLLUSCA:Gastropoda
Astyris rosacea
Margarites costalis
Oenopota bicarinata
Oenopota elegans
Oenopota turricula
Tachyrhynchus erosus
Trichotropis borealis
MOLLUSCA:Pelecypoda
Astarte borealis (f. arctica)
Astarte montagui (f. banksii)
Crenella faba
Cyclocardia borealis (as Venericardia borealis)
Hiatella arctica
Macoma calcarea
Mya truncata (f. uddevalensis)

Table 31. Benthic invertebrates collected by hand from station 49, 25 Aug 1947.

Species
ECTOPROCTA
Cystisella elegantula
PORIFERA
Phakettia sp.

Table 32. Benthic invertebrates collected from station 50, 28 Aug 1947.

Species
MOLLUSCA:Gastropoda
Acmaea testudinalis

Table 33. Benthic invertebrates collected by net from station 51, 29 Aug 1947.

Species	Species
ANNELIDA:Polychaeta	*Monoculodes intermedius*
Ampharete acutifrons (as *A. grubei*)	*Monoculodes latimanus*
Autolytus prismaticus	*Onisimus litoralis* (as *Pseudalibrotus littoralis*)
Eteone longa	*Pontogeneia inermis*
Harmothoe imbricata	*Pontoporeia affinis*
Scoloplos armiger	
ARTHROPODA:Amphipoda	ARTHROPODA:Cumacea
Anonyx nugax	*Diastylis rathkei*
Apherusa megalops (as *Halirages*)	*Lamprops fuscata*
Atylus carinatus	
Boeckosimus edwardsi (as *Onisimus*)	MOLLUSCA:Gastropoda
Calliopius laeviusculus	*Acmaea testudinalis*
Gammarus oceanicus	
Gammarus setosus	PRIAPULIDA
Guernea nordenskioldi	*Halicryptus spinulosus* ?
Ischyrocerus anguipes	
Monoculodes edwardsi	

Table 34. Benthic invertebrates collected by dredge from station 52, 30 Aug 1947.

Species
MOLLUSCA:Pelecypoda
Crenella faba

Table 35. Benthic invertebrates collected by dredge from station 53, 10 Jul 1948.

Species	Species
ARTHROPODA:Amphipoda	ECTOPROCTA
Caprella septentrionalis	Callopora craticula
Onisimus litoralis (as Pseudalibrotus littoralis)	Eucratea loricata
	MOLLUSCA:Pelecypoda
ARTHROPODA:Decapoda	Crenella faba
Eualus fabricii	Musculus discors (f. laevigatus)
Lebbeus groenlandicus	
CHORDATA:Ascidiacea	
Boltenia echinata	
Boltenia ovifera	
Dendrodoa aggregata	
Distaplia clavata	

Table 36. Benthic invertebrates collected by dredge from station 55, Jul 1948.

Species
ECHINODERMATA:Holothuroidea
Psolus fabricii

Table 37. Benthic invertebrates collected by net from station 57, 27 Jul 1948.

Species
ANNELIDA:Polychaeta
Autolytus prismaticus
ARTHROPODA:Amphipoda
Gammarus wilkitzkii
Onisimus glacialis (as Pseudalibrotus)

Table 38. Benthic invertebrates collected by dredge from station 58, 28 Jul 1948.

Species	Species
ANNELIDA:Polychaeta	ECHINODERMATA:Asteroidea
Autolytus prolifer	Henricia eschrichti
Harmothoe extenuata (as Lagisca rarispina)	Stephanasterias albula
Harmothoe imbricata	ECHINODERMATA:Echinoidea
Nereis pelagica	Strongylocentrotus droebachiensis
Nicolea zostericola	
ARTHROPODA:Amphipoda	ECHINODERMATA:Holothuroidea
Acanthonotozoma inflatum	Cucumaria frondosa (as C. japonica)
Ischyrocerus anguipes	Psolus fabricii
Neopleustes boecki (as Parapleustes)	
ARTHROPODA:Decapoda	ECHINODERMATA:Ophiuroidea
Eualus fabricii	Ophiacantha bidentata
Lebbeus groenlandicus	
Lebbeus polaris	ECTOPROCTA
Spirontocaris phippsi	Bidenkapia spitzbergensis
	Callopora craticula
BRACHIOPODA	Cauloramphus cymbaeformis
Hemithyris psittacea	Cystisella saccata
	Diplosolen obelia
COELENTERATA:Hydrozoa	Eucratea loricata
Calycella syringa	Hippoporina propinqua
Campanularia groenlandica	Hippoporina reticulatopunctata
Campanularia integra	Hippothoa hyalina
Campanularia speciosa	Idmonea atlantica
Campanularia volubilis	Lichenopora verrucaria
Coryne pusilla	Membranipora serrulata
Eudendrium arbusculum	Microporina articulata
Eudendrium capillare	Myriozoella plana
Eudendrium tenellum	Rhamphostomella bilaminata
Filellum serpens	Rhamphostomella costata
Gonothyraea loveni	Scrupocellaria arctica
Halecium labrosum	Tricellaria gracilis
Halecium muricatum	
Lafoea dumosa	MOLLUSCA:Gastropoda
Lafoea gracillima	Colus spitzbergensis
Sertularella polyzonias	
Sertularella tricuspidata	MOLLUSCA:Pelecypoda
Sertularia mirabilis	Crenella faba
Sertularia schmidti	Musculus discors (f. substriatus)
Sertularia similis	
Sertularia tenera	
Tetrapoma quadridentatum	

Table 39. Benthic invertebrates collected by dredge from station 59, 31 Jul 1948.

Species
ARTHROPODA:Decapoda
Eualus fabricii
Eualus gaimardi
Lebbeus groenlandicus
Lebbeus polaris
Pagurus pubescens (as Eupagurus kroyeri)
Spirontocaris phippsi
Spirontocaris spinus
ECHINODERMATA:Holothuroidea
Psolus fabricii

Table 40. Benthic invertebrates collected by net from station 60, 2 Aug 1948.

Species
ANNELIDA:Polychaeta
Autolytus alexandri (as A. verrilli)
Autolytus prismaticus
ARTHROPODA:Amphipoda
Gammarus wilkitzkii

Table 41. Benthic invertebrates collected by hand from station 64, 4 Jul 1948.

Species	Species
ANNELIDA:Polychaeta	NEMERTINA
Arenicola marina	Nemertean
Harmothoe imbricata	
Nereis pelagica	
ARTHROPODA:Amphipoda	
Gammarus oceanicus (as G. zaddachi oceanicus)	
MOLLUSCA:Pelecypoda	
Crenella faba	
Mytilus edulis	

Table 42. Benthic invertebrates collected by hand from station 65, 4 Jul 1948.

Species
ARTHROPODA:Amphipoda
Gammarus setosus
MOLLUSCA:Pelecypoda
Crenella faba

Table 43. Benthic invertebrates collected by hand from station 66, 7 Aug 1948.

Species
COELENTERATA:Anthozoa
Tealia felina
MOLLUSCA:Gastropoda
Littorina saxatilis
MOLLUSCA:Pelecypoda
Crenella faba
Mytilus edulis

Table 44. Benthic invertebrates collected by hand from station 67, 8 Aug 1948.

Species
COELENTERATA:Anthozoa
Tealia felina ?
MOLLUSCA:Pelecypoda
Crenella faba
Hiatella arctica
Musculus discors (f. laevigatus & substriatus)
Mya truncata (f. uddavalensis)

Table 45. Benthic invertebrates collected by hand from station 69, 16 Aug 1948.

Species
ANNELIDA:Polychaeta
Harmothoe extenuata (as *Lagisca rarispina*)
MOLLUSCA:Gastropoda
Acmaea testudinalis

Table 46. Benthic invertebrates collected by hand from station 70, 17 Aug 1948.

Species
ARTHROPODA:Decapoda
Hyas coarctatus
Lebbeus polaris
COELENTERATA:Anthozoa
Tealia felina ?

Table 47. Benthic invertebrates collected by net from station 101, 26 Jun 1949.

Species
ANNELIDA:Polychaeta
Autolytus alexandri
Autolytus prismaticus
Autolytus prolifer
Eteone longa
Scalibregma inflatum
ARTHROPODA:Amphipoda
Anonyx nugax
Apherusa megalops (as *Halirages*)
Boeckosimus edwardsi (as *Onisimus*)
Dulichia tuberculata
Eusirus cuspidatus
Monoculodes tuberculatus
Paroediceros lynceus
Pontogeneia inermis
Syrrhoe crenulata
Westwoodilla brevicalcar
ARTHROPODA:Cumacea
Diastylis scorpioides

Table 48. Benthic invertebrates collected by dredge and trawl from station 102, 30 Jun 1949.

Species	Species
ANNELIDA:Polychaeta	ARTHROPODA:Cumacea
Amphicteis sundevalli	Diastylis rathkei
Chaetozone setosa	
Chone infundibuliformis	ARTHROPODA:Decapoda
Gattyana cirrosa	Argis dentata
Harmothoe extenuata (as Lagisca rarispina)	Eualus fabricii
	Eualus g. belcheri
Harmothoe imbricata	Hyas coarctatus
Harmothoe nodosa (as Eunoe)	Sabinea septemcarinata
Laphania boecki	
Lumbrineris fragilis (as Lumbrinereis)	BRACHIOPODA
Lysilla loveni	Hemithyris psittacea
Lysippe labiata	
Maldane sarsi	CHORDATA:Ascidiacea
Nephtys ciliata (as Nephthys)	Cnemidocarpa finmarkiensis
Pherusa plumosa (as Stylaroides)	Distaplia clavata
Pholoe minuta	Pelonaia corrugata
Phyllodoce groenlandica	
Sabellides octocirrata (as Pseudosabellides lineata)	COELENTERATA:Anthozoa
	Actinostola spetsbergensis
Scalibregma inflatum	Tealia felina
Scoloplos armiger	
Sphaerodorum gracile (as Ephesia gracilis)	ECHINODERMATA:Crinoidea
	Heliometra glacialis
Terebellides stroemi	
	ECHINODERMATA:Echinoidea
ARTHROPODA:Amphipoda	Strongylocentrotus droebachiensis
Ampelisca eschrichti	
Anonyx nugax	
Bathymedon obtusifrons	ECHINODERMATA:Holothuroidea
Boeckosimus plautus (as Onisimus)	Myriotrochus rinki
Byblis gaimardi	
Ericthonius tolli	ECHINODERMATA:Ophiuroidea
Goesia depressa	Gorgonocephalus arcticus
Haploops tubicola	Ophiacantha bidentata
Ischyrocerus anguipes	Ophiura robusta
Ischyrocerus commensalis	Ophiura sarsi
Ischyrocerus latipes	
Ischyrocerus nanoides	ECTOPROCTA
Metopa hearni	Porella acutirostris
Orchomene minuta (as Orchomenella)	Reginella spitzbergensis
Paroediceros lynceus	Smittina majuscula
Paronesimus barentsi	
Photis tenuicornis	
Pleustes medius	
Protomedeia grandimana	
Rhachotropis aculeata (as Rachotropis)	

Table 48. Continued.

Species
MOLLUSCA:Gastropoda
Cylichna alba
Lepeta caeca
Lunatia pallida
Margarites costalis
Tachyrhynchus erosus
Tachyrhynchus reticulatus
MOLLUSCA:Pelecypoda
Astarte borealis
Astarte montagui (f. striata & warhami)
Clinocardium ciliatum
Cyclocardia borealis (as *Venericardia*)
Macoma calcarea
Musculus niger
Mya truncata (f. uddevalensis)
Nuculana minuta
Nuculana pernula
Thyasira gouldi
Yoldia hyperborea
SIPUNCULA
Golfingia eremita

Table 49. Benthic invertebrates collected by trawl, dredge and net from station 103, 6, 7 Jul and 7 Aug 1949.

Species	Species
ANNELIDA:Polychaeta	ARTHROPODA:Decapoda
Autolytus alexandri (as A. verrilli)	Lebbeus groenlandicus
Autolytus prolifer	Lebbeus polaris
Eulalia bilineata	Pagurus pubescens (as Eupagurus kroyeri)
Eusyllis blomstrandi	Pandalus montagui
Glycera capitata	Spirontocaris spinus
Harmothoe extenuata (as Lagisca rarispina)	ARTHROPODA:Isopoda
Harmothoe nodosa (as Eunoe)	Janira tricornis
Nereis pelagica	Munna kroyeri
Nicolea zostericola	
Pista maculata	BRACHIOPODA
Sabella crassicornis (as S. fabricii)	Hemithyris psittacea
Thelepus cincinnatus	
Tomopteris planktonis	CHORDATA:Ascidiacea
	Aplidium glabrum
ARTHROPODA:Amphipoda	Ascidia callosa
Amphithopsis longicaudata	Boltenia ovifera
Apherusa glacialis	Dendrodoa sp.
Arctopleustes glabricauda (as Parapleustes)	Didemnum albidum
Ericthonius tolli	Kukenthalia borealis
Eusirus cuspidatus	Polycitor vitreus
Gammarellus homari	
Haploops setosa	COELENTERATA:Anthozoa
Ischyrocerus anguipes	Drifa glomerata
Ischyrocerus commensalis	Hormathia nodosa
Ischyrocerus latipes	Stomphia coccinea
Metopa alderi	Tealia felina
Metopa longicornis	
Metopa norvegica	COELENTERATA:Hydrozoa
Metopella longimana	Campanularia volubilis
Neopleustes pulchellus (as Parapleustes)	Eudendrium tenellum
Odius carinatus	Halecium labrosum
Parapleustes assimilis	Lafoea fruticosa
Pleusymtes glabroides (as Sympleustes)	Tetrapoma quadridentatum
Stegocephalus inflatus	
Tryphosella orchomenoides (as Tmetonyx)	ECHINODERMATA:Asteroidea
	Henricia eschrichti
ARTHROPODA:Cirripedia	Leptasterias groenlandica
Balanus balanus	Solaster papposus
	Solaster syrtensis (as S. endeca)
ARTHROPODA:Decapoda	Stephanasterias albula
Eualus fabricii	
Eualus gaimardi	ECHINODERMATA:Crinoidea
Eualus g. belcheri	Heliometra glacialis
Hyas coarctatus	

Table 49. Continued.

Species
ECHINODERMATA:Echinoidea
Strongylocentrotus droebachiensis
ECHINODERMATA:Ophiuroidea
Gorgonocephalus arcticus
Ophiacantha bidentata
Ophiopholis aculeata
Ophiura robusta
ECTOPROCTA
Alcyonidium gelatinosum
Celleporina surcularis
Celleporina ventricosa
Doryporella spathulifera
Electra arctica
Escharella ventricosa
Hincksipora spinulifera
Hippoporella hippopus
Hippoporina propinqua
Porella smitti
Posterula sarsi
Reginella spitzbergensis
Securiflustra securifrons
Smittina rigida
MOLLUSCA:Amphineura
Ischnochiton albus (as Lophyrochiton)
MOLLUSCA:Gastropoda
Astyris rosacea
Boreotrophon fabricii
Boreotrophon truncatus
Buccinum glaciale (cf. hancocki)
Colus spitzbergensis
Margarites groenlandicus
Margarites umbilicalis
Tachyrhynchus reticulatus
MOLLUSCA:Pelecypoda
Crenella faba
Hiatella arctica
Musculus discors (f. substriatus)
Nuculana minuta
PORIFERA
Homoeodictya palmata
Mycale lingua
Phakettia arctica

Table 50. Benthic invertebrates collected by dredge from station 106, 7 Jul 1949.

Species	Species
ANNELIDA:Polychaeta	ECTOPROCTA
Harmothoe extenuata (as Lagisca rarispina)	Celleporina ventricosa
Harmothoe nodosa (as Eunoe)	Electra arctica
Thelepus cincinnatus	Escharella abyssicola
	Escharella immersa
ARTHROPODA:Amphipoda	Escharella thompsoni
Ericthonius tolli	Escharella ventricosa
Haploops tubicola	Hincksipora spinulifera
Metopa norvegica	Hippothoa hyalina
	Lepraliella contigua
ARTHROPODA:Decapoda	Myriapora coarctica
Lebbeus groenlandicus	Myriapora subgracila
Lebbeus polaris	Porella compressa
Pagarus pubescens (as Eupagurus kroyeri)	Schizoporella obesa
Spirontocaris spinus	Securiflustra securifrons
	Stomachetosella limbata
BRACHIOPODA	Stomachetosella sinuosa
Hemithyris psittacea	
	MOLLUSCA:Amphineura
COELENTERATA:Hydrozoa	Ischnochiton albus (as Lophyrochiton)
Sertularella tricuspidata	
	MOLLUSCA:Gastropoda
ECHINODERMATA:Asteroidea	Lepeta caeca
Henricia eschrichti	Margarites costalis
Leptasterias polaris (as Asterias)	Tachyrhynchus reticulatus
ECHINODERMATA:Crinoidea	MOLLUSCA:Pelecypoda
Heliometra glacialis	Cyclocardia borealis (as Venericardia)
	Hiatella arctica
ECHINODERMATA:Echinoidea	Musculus corrugatus
Strongylocentrotus droebachiensis	
ECHINODERMATA:Holothuroidea	
Psolus fabricii	
ECHINODERMATA:Ophiuroidea	
Gorgonocephalus arcticus	
Ophiura robusta	

Table 51. Benthic invertebrates collected by dredge from station 107, 7 Jul 1949.

Species	Species
ANNELIDA:Polychaeta	ECHINODERMATA:Ophiuroidea
Ammotrypane aulogaster	Ophiura sarsi
Eteone longa	
Harmothoe extenuata (as Lagisca rarispina)	ECTOPROCTA
Lumbrineris fragilis (as Lumbrinereis)	Celleporina surcularis
Maldane sarsi	Celleporina ventricosa
Melinna cristata	
Nephtys ciliata (as Nephthys)	MOLLUSCA:Gastropoda
Nereis pelagica	Boreotrophon fabricii
Onuphis conchylega	Buccinum scalariforme (as B. tenue)
Owenia fusiformis	Colus spitzbergensis
Pherusa plumosa (as Stylarioides)	Lepeta caeca
Phyllodoce groenlandica	Natica clausa
Scoloplos armiger	Tachyrhynchus reticulatus
Terebellides stroemi	Trichotropis borealis
Thelepus cincinnatus	
	MOLLUSCA:Pelecypoda
ARTHROPODA:Amphipoda	Astarte borealis (f. placenta)
Ampelisca eschrichti	Cyclocardia borealis (as Venericardia)
Byblis gaimardi	Macoma calcarea
Haploops tubicola	Musculus discors (f. laevigatus)
Rhachotropis aculeata (as Rachotropis)	Musculus niger
	Mya truncata (and f. ovata)
ARTHROPODA:Decapoda	Nuculana minuta
Argis dentata	
Eualus fabricii	SIPUNCULA
Eualus macilentus	Golfingia margaritacea
Hyas coarctatus	
Lebbeus polaris	
Pagurus pubescens (as Eupagurus kroyeri)	
Pandalus montagui	
Spirontocaris spinus	
CHORDATA:Ascidiacea	
Boltenia ovifera	
Halocynthia pyriformis	
COELENTERATA:Anthozoa	
Actinostola spetsbergensis	
ECHINODERMATA:Asteroidea	
Leptasterias polaris (as Asterias)	
ECHINODERMATA:Holothuroidea	
Cucumaria frondosa (as C. japonica)	
Myriotrochus rinki	

Table 52. Benthic invertebrates collected by hand from station 107A, 9 Jul 1949.

Species
ARTHROPODA:Amphipoda
Gammarus setosus
Onisimus litoralis (as *Pseudalibrotus littoralis*)
ARTHROPODA:Cirripedia
Balanus balanoides ?
MOLLUSCA:Gastropoda
Littorina saxatilis ?

Table 53. Benthic invertebrates collected by hand from station at Mission Cove, 10 Jul 1949.

Species
ARTHROPODA:Amphipoda
Gammarus oceanicus ?
Gammarus setosus ?
Onisimus litoralis (as *Pseudalibrotus littoralis*)
ARTHROPODA:Cirripedia
Balanus balanoides ?
COELENTERATA:Anthozoa
Tealia felina
MOLLUSCA:Gastropoda
Littorina saxatilis

Table 54. Benthic invertebrates collected by hand from station 1078, 11 Jul 1949.

Species
ARTHROPODA:Amphipoda
Gammarus oceanicus (as G. zaddachi oceanicus)
Gammarus wilkitzkii
Onisimus litoralis (as Pseudalibrotus littoralis)
ARTHROPODA:Cirripedia
Balanus balanoides ?
MOLLUSCA:Gastropoda
Littorina saxatilis ?
MOLLUSCA:Pelecypoda
Mytilus edulis

Table 55. Benthic invertebrates collected by net from station 109, 16 Jul 1949.

Species
COELENTERATA:Hydrozoa
Sertularella polyzonias

Table 56. Benthic intertebrates collected by hand from station 112, 18 Jul 1949.

Species
ARTHROPODA:Amphipoda
Gammarus oceanicus (as G. zaddachi oceanicus)
Gammarus setosus
ARTHROPODA:Cirripedia
Balanus balanoides ?
MOLLUSCA:Gastropoda
Littorina saxatilis

Table 57. Benthic invertebrates collected by net and line from station 124, 20 Jul 1949.

Species
ANNELIDA:Polychaeta
Nereis pelagica
ARTHROPODA:Amphipoda
Anonyx nugax
Boeckosimus edwardsi (as Onisimus)
Gammarellus homari
Ischyrocerus anguipes
Oediceros saginatus
Paroediceros lynceus
Pontogeneia inermis
Westwoodilla brevicalcar
ARTHROPODA:Decapoda
Eualus fabricii
Lebbeus polaris

Table 58. Benthic invertebrates collected by line from station 125A, 23 and 24 Aug 1949.

Species
ARTHROPODA:Amphipoda
Anonyx nugax
Boeckosimus edwardsi (as Onisimus)
Calliopius laeviusculus
Orchomene pinguis (as Orchomenella)
ECHINODERMATA:Asteroidea
Henricia eschrichti
MOLLUSCA:Gastropoda
Buccinum cyaneum
Buccinum glaciale (cf. hancocki)

Table 59. Benthic invertebrates collected by dredge from station 126, 23 Aug 1949.

Species	Species
ANNELIDA:Polychaeta	ECHINODERMATA:Asteroidea
Harmothoe nodosa (as Eunoe)	Henricia eschrichti
Lanassa venusta	Leptasterias polaris
Nereis pelagica	Pteraster militaris
Onuphis conchylega	Solaster papposus
Thelepus cincinnatus	
	ECHINODERMATA:Crinoidea
ARTHROPODA:Amphipoda	Heliometra glacialis
Ampelisca eschrichti	
Anonyx nugax	ECHINODERMATA:Echinoidea
Ericthonius tolli	Strongylocentrotus droebachiensis
Melita dentata	
	ECHINODERMATA:Holothuroidea
ARTHROPODA:Cirripedia	Psolus fabricii
Balanus balanus	
	ECHINODERMATA:Ophiuroidea
ARTHROPODA:Decapoda	Gorgonocephalus arcticus
Argis dentata	Ophiopholis aculeata
Eualus fabricii	
Lebbeus groenlandicus	
Lebbeus polaris	ECTOPROCTA
Hyas coarctatus	Bidenkapia spitzbergensis
Pagurus pubescens (as Eupagurus kroyeri)	Callopora craticula
Sclerocrangon boreas	Escharella ventricosa
Spirontocaris phippsi	Hippoporina propinqua
Spirontocaris spinus	Hippoporina reticulatopunctata
	Lepraliella contigua
CHORDATA:Ascidiacea	Membranipora serrulata
Ascidia callosa	Microporella ciliata
Boltenia echinata	Myriozoella plana
Boltenia ovifera	Porella minuta
Botrylloides aureum	Posterula sarsi
Halocynthia pyriformis	Reginella spitzbergensis
	Rhamphostomella hincksi
COELENTERATA:Anthozoa	Schizoporella obesa
Actinostola spetsbergensis	Smittina groenlandica
Gersemia rubiformis	Smittina rigida
Stomphia coccinea	Stephanosella biaperta
COELENTERATA:Hydrozoa	MOLLUSCA:Gastropoda
Abietinaria abietina	Boreotrophon fabricii
Calycella syringa	Buccinum scalariforme (as B. tenue)
Campanularia volubilis	Margarites costalis
Filellum serpens	Tachyrhynchus reticulatus
Sertularella tricuspidata	
Sertularia schmidti	

Table 59. Continued.

Species
MOLLUSCA:Pelecypoda
Astarte borealis (f. typica)
Astarte montagui (f. globosa)
Chlamys islandica
Clinocardium ciliatum
Cyclocardia borealis (as Venericardia)
Hiatella arctica
Musculus discors (f. substriatus)
PORIFERA
Phakettia cribrosa

Table 60. Benthic invertebrates collected by net from station 128, 24 Aug 1949.

Species
ARTHROPODA:Decapoda
Eualus fabricii
Lebbeus polaris
Spirontocaris spinus
ARTHROPODA:Amphipoda
Weyprechtia pinguis

Table 61. Benthic invertebrates collected by net from station 129, 25 Aug 1949.

Species
ANNELIDA:Polychaeta
Autolytus prismaticus
ARTHROPODA:Pycnogonida
Nymphon brevitarse
MOLLUSCA:Gastropoda
Lunatia pallida

Table 62. Benthic invertebrates collected by hand from station 201A, 27 Jun 1950.

Species
ARTHROPODA:Amphipoda
Gammarus setosus
ARTHROPODA:Cirripedia
Balanus balanoides ?
MOLLUSCA:Gastropoda
Littorina saxatilis

Table 63. Benthic invertebrates collected by hand from station 201B, 28 Jun 1950.

Species
ARTHROPODA:Amphipoda
Ampelisca eschrichti
Arrhis phyllonyx
Ericthonius tolli
Monoculodes longirostris
Paroediceros lynceus
ARTHROPODA:Cirripedia
Balanus balanoides ?

Table 64. Benthic invertebrates collected by dredge from station 201C, 29 Jun 1950.

Species	Species
ANNELIDA:Polychaeta	ECTOPROCTA
Amphitrite groenlandica	Bidenkapia spitzbergensis
Autolytus alexandri (as. A. verrilli)	Cauloramphus cymbaeformis
Harmothoe nodosa (as Eunoe)	Cystisella saccata
Lumbrineris fragilis (as Lumbrinereis)	Hippoporina propinqua
Maldane sarsi	Hippoporina reticulatopunctata
Nephtys ciliata (as Nephthys)	Membranipora serrulata
Terebellides stroemi	Rhamphostomella bilaminata
	Umbonula arctica
ARTHROPODA:Amphipoda	
Aeginina longicornis	MOLLUSCA:Amphineura
Ampelisca eschrichti	Ischnochiton albus (as Lophyrochiton)
Anonyx nugax	
Gammarus oceanicus (as G. zaddachi oceanicus)	MOLLUSCA:Gastropoda
Haploops tubicola	Buccinum scalariforme (as B. tenue)
	Buccinum totteni
ARTHROPODA:Decapoda	Lunatia pallida
Argis dentata	Natica clausa
Eualus gaimardi	Trichotropis borealis
Pagurus pubescens (as Eupagurus kroyeri)	
Sabinea septemcarinata	MOLLUSCA:Pelecypoda
Spirontocaris spinus	Clinocardium ciliatum
	Hiatella arctica
COELENTERATA:Hydrozoa	Musculus corrugatus
Calycella syringa	Musculus niger
Campanularia volubilis	Nuculana pernula
Eudendrium rameum	Yoldia hyperborea
Filellum serpens	
Sertularella tricuspidata	
Sertularia schmidti	
ECHINODERMATA:Asteroidea	
Ctenodiscus crispatus	
Leptasterias groenlandica	
Solaster endeca	
Urasterias lincki	
ECHINODERMATA:Holothuroidea	
Myriotrochus rinki	

Table 65. Benthic invertebrates collected by dredge from station 203, 8 Jul 1950.

Species	Species
ANNELIDA:Polychaeta	ARTHROPODA:Decapoda
Asabellides sibirica (as Pseudosabellides littoralis)	Argis dentata
Chone infundibuliformis	Eualus fabricii
Euchone analis	Hyas coarctatus
Flabelligera affinis	Lebbeus groenlandicus
Gattyana cirrosa	Pagurus pubescens (as Eupagurus kroyeri)
Harmothoe extenuata (as Lagisca rarispina)	Sclerocrangon boreas
Harmothoe imbricata	Spirontocaris spinus
Harmothoe oerstedi	ARTHROPODA:Isopoda
Nereis pelagica	Arcturus baffini
Pectinaria granulata (as Cistenides)	Mesidotea sabini
Phyllodoce groenlandica	ARTHROPODA:Pycnogonida
Pista flexuosa	Eurycyde hispida
Polyphysia crassa (as Eumenia)	Nymphon grossipes
Sabella crassicornis (as S. fabricii)	CHORDATA:Ascidiacea
Scalibregma inflatum	Ascidia callosa
ARTHROPODA:Amphipoda	Boltenia ovifera
Aeginina longicornis	Cnemidocarpa rhizopus
Ampelisca eschrichti	Dendrodoa aggregata
Apherusa glacialis	COELENTERATA:Anthozoa
Caprella septentrionalis	Drifa glomerata
Dulichia spinosissima	Tealia felina
Ericthonius tolli	COELENTERATA:Hydrozoa
Ischyrocerus anguipes	Calycella syringa
Ischyrocerus latipes	Campanularia groenlandica
Metopa glacialis (as M. cariana)	Campanularia integra
Onisimus litoralis (as Pseudalibrotus littoralis)	Campanularia volubilis
Orchomene macroserrata	Obelia longissima
Paramphithoe hystrix	Sarsia tubulosa
Paroediceros lynceus	Sertularella tricuspidata
Rhachotropis aculeata (as Rachotropis)	Sertularia schmidti
Socarnes bidenticulatus	Sertularia similis
ARTHROPODA:Cumacea	Sertularia tenera
Diastylis rathkei	

Table 65. Continued.

Species
ECHINODERMATA:Asteroidea
Henricia eschrichti
Leptasterias groenlandica
ECHINODERMATA:Holothuroidea
Cucumania frondosa (as C. japonica)
Myriotrochus rinki
Psolus fabricii
ECHINODERMATA:Ophiuroidea
Gorgonocephalus arcticus
Ophiacantha bidentata
ECTOPROCTA
Cauloramphus cymbaeformis
Hincksina nigrans
Hippothoa hyalina
Lichenopora hispida
Myriozoella plana
Porella minuta
Rhamphostomella bilaminata
Rhamphostomella costata
Stomachetosella cruenta
Tegella arctica
Tegella armifera
Umbonula arctica
MOLLUSCA:Gastropoda
Boreotrophon fabricii
Buccinum glaciale
Buccinum scalariforme (as B. tenue)
Buccinum totteni
Neptunea heros
Oenopota elegans
Onchidiopsis kingmaruensis ?
Plicifusus kroyeri
Velutina undata
MOLLUSCA:Pelecypoda
Astarte borealis (f. placenta & typica)
Crenella faba
Musculus corrugatus
Musculus discors (f. laevigatus)
PORIFERA
Phakettia ventilabrum
Phakettia sp.

Table 66. Benthic invertebrates collected by hand from station 204, 9 Jul 1950.

Species
ARTHROPODA:Amphipoda
Gammarus oceanicus ?
Gammarus setosus ?
ARTHROPODA:Cirripedia
Balanus balanoides ?
ARTHROPODA:Decapoda
Hyas coarctatus
MOLLUSCA:Gastropoda
Littorina saxatilis

Table 67. Benthic invertebrates collected by hand from station 205, 16 Jul 1950.

Species
ARTHROPODA:Amphipoda
Gammarus oceanicus (as G. zaddachi oceanicus)
Gammarus setosus
MOLLUSCA:Gastropoda
Littorina saxatilis

Table 68. Benthic intertebrates collected by net from station 205B, 16 Jul 1950.

Species
ARTHROPODA:Decapoda
Lebbeus groenlandicus
Sclerocrangon boreas

Table 69. Benthic invertebrates collected by dredge from station 206, 15 Jul 1950.

Species
ANNELIDA:Polychaeta
Harmothoe extenuata (as Lagisca rarispina)
Thelepus cincinnatus
ARTHROPODA:Amphipoda
Ischyrocerus anguipes
ARTHROPODA:Decapoda
Eualus fabricii
Hyas coarctatus
Lebbeus polaris
BRACHIOPODA
Hemithyris psittacea
COELENTERATA:Hydrozoa
Sertularia schmidti
ECHINODERMATA:Asteroidea
Leptasterias groenlandica
Solaster papposus
ECHINODERMATA:Echinoidea
Strongylocentrotus droebachiensis
ECHINODERMATA:Ophiuroidea
Gorgonocephalus arcticus
Ophiacantha bidentata
Ophiopholis aculeata
ECTOPROCTA
Celleporina ventricosa
Escharella immersa
Schizoporella obesa

Table 70. Benthic invertebrates collected by hand from station 224A, 18 Aug 1950.

Species
ARTHROPODA:Amphipoda
Gammarus setosus
ARTHROPODA:Cirripedia
Balanus balanoides
MOLLUSCA:Gastropoda
Littorina saxatilis
MOLLUSCA:Pelecypoda
Crenella faba
Mytilus edulis

Table 71. Benthic invertebrates collected by net from station 228, 25 Aug 1950.

Species
ARTHROPODA:Amphipoda
Pontogeneia inermis
ARTHROPODA:Cumacea
Diastylis rathkei

Table 72. Benthic invertebrates collected by net from station 229, 26 Aug 1950.

Species	Species
ANNELIDA:Polychaeta	ECTOPROCTA
Autolytus prismaticus	Phidolopora elongata
Capitella capitata	Porella concinna
Eteone longa	Rhamphostomella hincksi
Phyllodoce groenlandica	Schizomavella porifera
COELENTERATA:Hydrozoa	
Calycella gracilis	
Rhizogeton nudus	
Sertularia mirabilis	
Sertularia similis	
ECTOPROCTA	
Celleporina surcularis	
Cheilopora sincera	
Idmonea atlantica	
Microporina articulata	
Myriapora subgracila	
Myriozoella plana	

Table 73. Benthic invertebrates collected by hand from station 229B, 28 Aug 1950.

Species
ARTHROPODA:Amphipoda
Boeckosimus affinis (as Onisimus affinis)
Gammarus oceanicus (as G. zaddachi oceanicus)
Onisimus litoralis (as Pseudalibrotus littoralis)
ARTHROPODA:Cirripedia
Balanus balanoides
COELENTERATA:Anthozoa
Tealia felina
MOLLUSCA:Gastropoda
Littorina saxatilis
Margarites helicinus
MOLLUSCA:Pelecypoda
Hiatella arctica

Table 74. Benthic invertebrates collected by dredge from station 231, 27 Aug 1950.

Species
ANNELIDA:Polychaeta
Ampharete acutifrons (as A. grubei)
Amphicteis sundevalli
Autolytus prolifer
Harmothoe extenuata (as Lagisca rarispina)
Harmothoe nodosa (as Eunoe)
Lumbrineris fragilis (as Lumbrinereis)
Lysippe labiata
Maldane sarsi
Melinna cristata
Nephtys ciliata (as Nephthys)
Nephtys longosetosa ? (as Nephthys)
Owenia fusiformis
Pectinaria hyperborea (as Cistenides)
Terebellides stroemi
ARTHROPODA:Amphipoda
Aeginina longicornis
Ampelisca eschrichti
Anonyx nugax
Byblis gaimardi
Ericthonius tolli
Eusirus cuspidatus
Haploops tubicola
Ischyrocerus latipes
Metopa glacialis (as M. cariana)
Socarnes bidenticulatus
Socarnes vahli
ARTHROPODA:Cumacea
Diastylis rathkei
ARTHROPODA:Decapoda
Pagurus pubescens (as Eupagurus kroyeri)
BRACHIOPODA
Hemithyris psittacea
COELENTERATA:Anthozoa
Tealia felina
COELENTERATA:Hydrozoa
Gonothyraea loveni
Sertularia schmidti
ECHINODERMATA:Ophiuroidea
Gorgonocephalus arcticus
Ophiacantha bidentata
Ophiura robusta
Ophiura sarsi
ECTOPROCTA
Myriozoella plana
Porella compressa
Reginella spitzbergensis
Securiflustra securifrons
Smittina mucronata
MOLLUSCA:Gastropoda
Astyris rosacea
Buccinum glaciale (cf. hancocki)
Buccinum scalariforme (as B. tenue)
Buccinum undatum
Capulacmaea radiata
Colus islandicus
Cylichna alba
Oenopota turricula
Velutina undata
MOLLUSCA:Pelecypoda
Astarte borealis (f. typica)
Astarte montagui (f. warhami)
Cyclocardia borealis (as Venericardia)
Hiatella arctica
Macoma calcarea
Macoma moesta
Musculus discors (f. laevigatus)
Musculus niger
Nuculana pernula
Serripes groenlandicus
PORIFERA
Lissodendoryx indistincta
SINPUNCULA
Golfingia margaritacea

Table 75. Benthic invertebrates collected by net from station 232, 27 Aug 1950.

Species
CHORDATA:Ascidiacea
Cnemidocarpa finmarkiensis
ECTOPROCTA
Escharella connectens
Myriapora subgracilla
Porella compressa
Posterula sarsi
Rhamphostomella costata
Schizomavella porifera
Tricellaria gracilis
MOLLUSCA:Gastropoda
Admete couthouyi
Cylichna alba
Lepeta caeca
Margarites costalis
Margarites umbilicalis
Trichotropis bicarinata
Trichotropis conica
MOLLUSCA:Pelecypoda
Clinocardium ciliatum
Cyclocardia borealis (as *Venericardia*)
Musculus discors (f. substriatus)

Table 76. Benthic invertebrates collected by net from station 234, 31 Aug 1950.

Species
ANNELIDA:Polychaeta
Chaetozone setosa
Harmothoe imbricata
ARTHROPODA:Amphipoda
Aceroides l. latipes
Ampelisca eschrichti
Arrhis phyllonyx
Bathymedon obtusifrons
Ericthonius tolli
Ischyrocerus anguipes
Monoculodes latimanus
Neopleustes pulchellus (as *Parapleustes*)
Pardalisca cuspidata
Paroediceros lynceus
Pontogeneia inermis
Protomedeia grandimana
Rhachotropis oculata (as *Rachotropis*)
Tryphosella orchomenoides (as *Tmetonyx*)
ARTHROPODA:Cumacea
Diastylis rathkei
ARTHROPODA:Decapoda
Eualus gaimardi
COELENTERATA:Anthozoa
Tealia felina
ECHINODERMATA:Asteroidea
Leptasterias groenlandica
ECHINODERMATA:Holothuroidea
Myriotrochus rinki
ECHINODERMATA:Ophiuroidea
Ophiacantha bidentata
MOLLUSCA:Gastropoda
Buccinum scalariforme (as *B. tenue*)
MOLLUSCA:Pelecypoda
Crenella faba
Hiatella arctica
Nucula belloti
Yoldia hyperborea

Table 77. Benthic invertebrates collected by hand from station 235, 1 Sep 1950.

Species
ARTHROPODA:Amphipoda
Gammarus oceanicus (as *G. zaddachi oceanicus*)
Gammarus setosus
MOLLUSCA:Gastropoda
Acmaea testudinalis
Littorina saxatilis

Table 78. Benthic invertebrates collected by net from station 301, 3 Jul 1951.

Species
ANNELIDA:Polychaeta
Autolytus alexandri (as *A. verrilli*)
Eteone longa
ARTHROPODA:Amphipoda
Ischyrocerus latipes

Table 79. Benthic intertebrates collected by net from station 304, 23 Jul 1951.

Species
ARTHROPODA:Amphipoda
Calliopius laeviusculus